Annual Report
Office of The Fire Commissioner
Department of Labour and Employment Services

1982

June 01, 1982

The Honourable Mary Beth Dolin

Minister of Labour and Employment Services

Province of Manitoba

Madam

I have the honour to submit herewith the Annual Report of the Fire Commissioner's Office, Province of Manitoba, for the calendar year ended December 31, 1982.

Your Obedient Servant

A. Thorimbert

Fire Commissioner

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OFFICE OF THE FIRE COMMISSIONER

The Office of the Fire Commissioner administers Part II of the Fires Prevention Act, the Manitoba Fire Code (Regulation 15/77) and Fire Hose Couplings and Fittings (Regulation 96/64).

FUNCTIONS

The overall functions of the Fire Commissioner's Office are ω promote the prevention of fires and to minimize loss of life and property when fires do occur.

In doing so, the Branch has five specific objectives:

- To enforce regulations governing the sale, storage and use of combustibles and explosives; the installation and maintenance of fire alarm systems and fire extinguishing equipment and the construction and maintenance of fire escapes and fire exits
- To investigate the cause, origin and circumstances of fires, and to help in the suppression of arson
- To train and advise members of fire departments, the insurance industry, other government agencies, institutions, enforcement agencies and industry about fire fighting, equipment and fire identification
- To research and collect statistics and information on fires, fire fighting and fire prevention
- To educate the public about fires and fire prevention

The Branch, which is directed by the Fire Commissioner, has a number of sections to carry out specific functions. These include the Investigation, Prevention, Training, Technical Services and Statistical sections.

STAFF

The staff of the Office in 1982 consisted of the Fire Commissioner, deputy fire commissioner, the supervisor of the fire services and training section, twenty-one assistant fire commissioners, including six in Brandon, two in Dauphin, two in Thompson and one in Portage la Prairie, one public education and two technical service officers, a statistician, secretary and six support staff. As well, there are presently two vacant positions.

REVIEW OF 1982

Manitoba's overall fire loss picture in 1982 was considerably brighter and very encouraging in comparison to previous years. 1980 reported the highest fire incidents and property loss in the history of this office.

The damage by fire in 1982 was caused by 5,977 fire incidences with a property loss of $36,209,760. These figures indicate 719 or 11% reduction in the number of fires compared to 1981 and less than one percent increase in the monitary loss.

Major loss fires decreased by 5 or 20% in number and 3.4 million dollars in damage. The average loss per fire in this category was $485,000 in comparison to $521,000 in 1981. Property destroyed in major loss fires represents approximately 26% of the total reported dollar loss in the province.

The number of lives lost due to fire decreased 13 or by 25%. Thirty-nine fatalities (15 men, 13 women and 11 children) succumbed in 30 fires. The number of male adults that died due to fire decreased by 10 or 40 percent. The 288 fire injuries reported this past year represents a 24% increase in comparison to 1981. Thirty-four or 87% of all fatalities occurred in residential property. Human failing was responsible for one third of all reported fatalities. The presence of alcohol contributed directly or indirectly to 13 or one third of all 1982 fire fatalities.

More senior citizens (12) succumbed by fire in the last year than in any other age group. In the last three years persons aged 65 and over have been in the top two age groups of fatalities.

A greater emphasis in fire prevention should be directed to senior citizens particularly in residential properties.

Residential properties represent 38% or 2,266 of all reported fires and accounted for a monitary loss of 49% or $17,824,050. Of greatest concern were the number of fires reported in single family dwellings last year. These accounted for 28 percent of all reported fires, and 32 percent of all property losses.

June 1982 marked the first edition of the Manitoba Fire Service News Bulletin. The intent of the news bulletin, published quarterly will be to keep the fire service informed of new developments in fire related fields and encourage feed-back from the respective fire departments. The news bulletin contains items concerning up-coming local events to any problem encountered or solved by fire departments within their own jurisdiction which may assist other fire departments in Manitoba.

The office in conjunction with local police authorities investigated 689 fires in 1982. Office members conducted 310 investigations in the City of Winnipeg, 14 in urban centers and 119 in rural Manitoba. Accidental fires increased to 352 last year from 287 reported in 1981. An encouraging note is in the number of investigations concluded incendiary, vandalism or undetermined-suspicious. All of these causes show a decrease in comparison to 1981.

The number of persons charged increased slightly last year whereas the number of persons convicted stands at 21, 1981 reported 33. The decrease could be contributed partly due to the number of court cases pending at the end of 1982 which rose to 41 from 29 reported in 1981.

Inspections conducted by office staff rose to 470 or 10 percent over 1981. The number of infractions corrected on the spot during 1982 rose to 281 from 246 in 1981, and 226 in 1980. For the third consecutive year the greatest number of orders issued due to deficiencies occurred in the categories of "Fire Extinguishers" and "Exits and Alternate Means of Egress".

During the past year a fire protection survey of all Personal Care Homes was conducted by office staff in conjunction with city fire departments from Brandon, Portage la Prairie and Winnipeg. Information obtained during the survey concerned:

a) type of fire alarm/early warning system
b) exiting
c) compartmentation
d) emergency lighting
e) special extinguishing system
f) emergency plans
g) staffing and other pertinent information

After reviewing the information gathered and meeting with the Manitoba Health Services Commission, it was decided to implement a major upgrading program and establishing an upgrading priority list governing all personal care homes in the province. The program was later expanded to include all hospitals province-wide.

The survey established a recurring problem in the upgrading of existing buildings as there was no set standard which could be used in its entirety. As the result the Fire Commissioner issued the following document "Guidelines for Upgrading Existing Health Care Facilities" in May, 1982. The intent of the guidelines is to provide information required to upgrade existing buildings where deficiencies could effect the ability of the staff to carry out life-safety functions, and to correct conditions which could cause a fire or rapid propogation of a fire and/or the product of combustion.

Over 58,000 pieces of literature were distributed and 36 films relating to fire safety were made available to local fire departments to assist them in promoting fire prevention and fire safety. A list of fire service education films is available in Section V — Lending Library. The control literature may be obtained through the Office of the Fire Commissioner, Room 510 Norquay Building, 401 York Avenue Winnipeg.

The Fire Advisory Committee with its four sub-committees and task groups, met 47 times to discuss the Manitoba Fire Code, fire protection and suppression services in the Province, development of regulations for upgrading of existing hotels and motels, central reporting and monitoring of fire alarm systems, certification for portable fire extinguishers servicing, special fire extinguishing system installation and servicing, and fire alarm system installation, servicing and inspections.

Effective November, the Manitoba Fire Code, Second Edition 1982 was approved and adopted by order-in-council number 189/82.

The Fire Training and Special Services section, which operates the Manitoba Fire College in co-operation with the Assiniboine Community College offered 362 courses in fire prevention and inspections and fire protection training for fire service personnel, those working in care institutions and government staff, along with the insurance industry and the general public.

The substantial increase in attendance and the number of courses offered was greatly effected by the opening of the Manitoba Fire College — Eastern Region Office located at 693 Taylor Avenue Winnipeg.

In the fall the Municipal Fire Prevention Program was made available to all fire departments in the Province. The purpose of this program is to increase public awareness of potential fire hazards through annual inspections in all public buildings, structures and premises with the exception of hospitals, nursing homes and daycare centers. The Statistical Section of the office has undertaken the task of computerizing this program and presently has 7,500 buildings and structures on file.

The Training Section, in co-operation with the Department of Northern Affairs, under the Northlands Agreement, continued to promote fire prevention through dwelling inspections and training of local fire department personnel. The success of the program is evident in the statistics. For the third consecutive year there were no fire fatalities reported in communities under the Northlands program. The number of fires has remained constant with the 1981

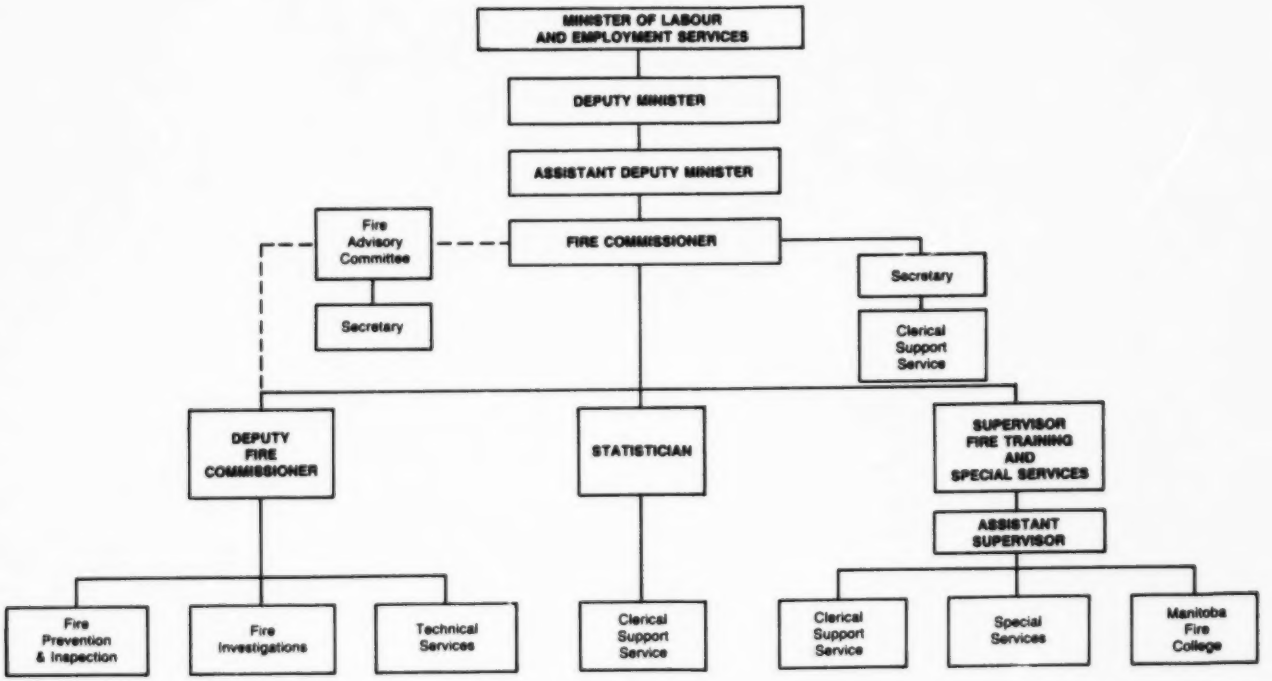
report of 42 fires but unfortunately the monitary loss doubled to 1.1 million dollars. The increase can be contributed to one major loss fire estimated at one half million dollars.

The employment of a Public Education Officer enabled the office to implement fire safety educational programs. Her role is to develope, design and co-ordinate programs covering such topics as home fire safety, exit drills and the "Stop-Drop and Roll' technique of extinguishing burning clothing while being worn. The program is presented with the assistance of local volunteer fire fighters from various fire departments to grade school children, senior citizens, youth groups such as brownies and boy scouts, local service clubs and the public at large.

In concluding the review of achievements during the past year the Fire Commissioner's Office takes this opportunity to thank the various agencies and organizations which support and assist the office in carrying out its responsibilities. We look forward to continuing the excellent working relationship with fire and police services in the Province as well as with members of the insurance industry.

FUNCTIONS OF THE OFFICE OF THE FIRE COMMISSIONER

PROVINCE OF MANITOBA



OFFICE FUNCTIONS

FIRE PREVENTION AND INSPECTION

Inspection of:
- Public Buildings
- Schools
- Hotels and Motels
- Institutions
- Industrial Establishments

Instruct and lecture to: staff of hospitals, schools, fire departments and industrial estsblishments

Regional Offices

Winnipeg (2), Brandon, Dauphin Thompson, Portage la Prairie

FIRE INVESTIGATIONS

Detection of arson
Determination of cause and origin
Investigation of fires resulting in injuries or fatalities
Instruct and lecture to law enforcement authorities and fire departments re arson investigation

TECHNICAL SERVICES

Examines plans and inspects Buildings containing:
- Hazardous Products
- Spray Painting
- Automatic Extinguishing Systems
- Flammable Liquids

Interprets Sections in the Manitoba Fire Code
Manitoba Building Code
Manitoba Electrical Code
and Referenced Standards

STATISTICS

Compile and disseminate uniform fire loss statistics
Prepare Annual Report
Instruct to: fire departments and insurance adjusters re: fire loss reporting

SPECIAL SERVICES

Assist fire department in:
- Organization Requirements
- Equipment Requirements
- Apparatus Requirements
- Mutual Aid

Conduct:
- Fire Protection Surveys
- Fire Pumper Specifications
- Fire Pumper Tender Perusal and Assessments
- Fire Pumper Performance and Acceptance Field Test

Instruct:
- On the Control of Dangerous Goods Incidents

MANITOBA FIRE COLLEGE

Certification Program
Certify:
- Paid and Volunteer Fire Fighters
- Fire Service Instructors
- Fire Prevention Officers
- Institutional Fire Marshals
- Institutional Staff

Section I

Fire Loss Statistics

Chart No. 1

COMPARATIVE CHART OF THE TOTAL NUMBER OF FIRES IN MANITOBA, 1973 - 1982

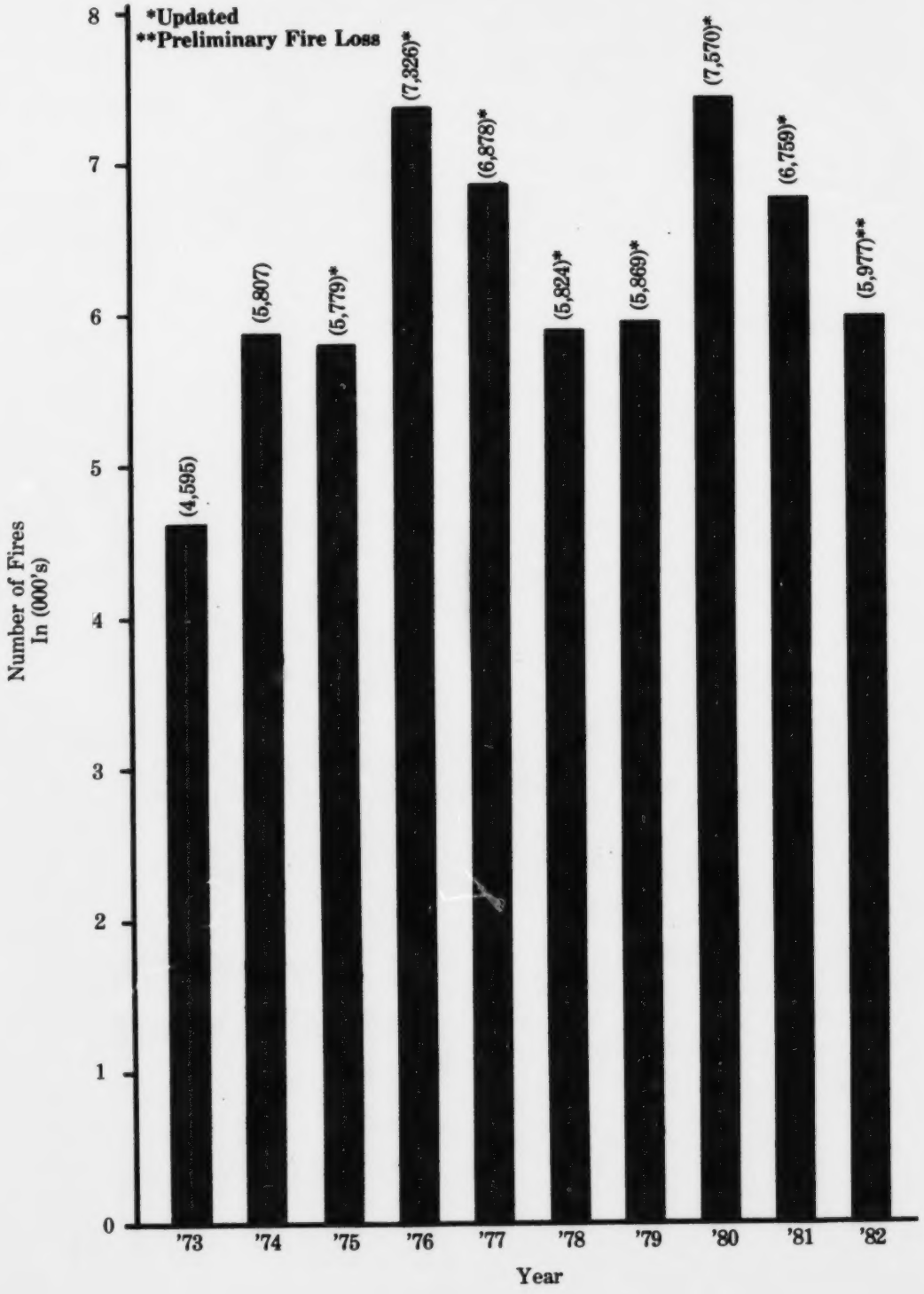


Chart No. 2

COMPARATIVE CHART OF THE TOTAL DOLLAR LOSS IN MANITOBA, 1973 - 1982

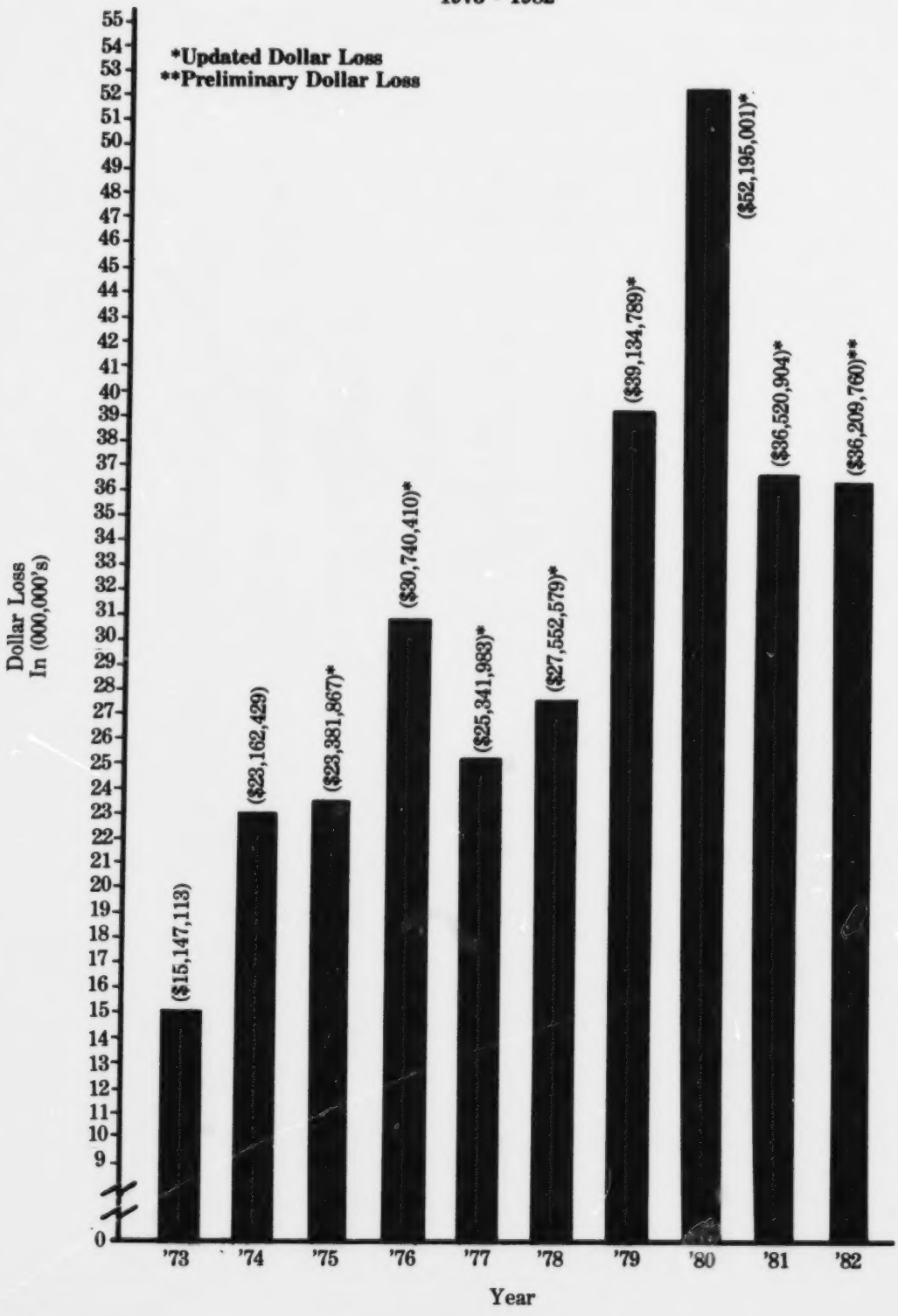


Table No. 1

DISTRIBUTION OF FIRES BY AMOUNT OF DOLLAR LOSS, 1982

Amount of Dollar Loss Minimum	Maximum	Number of Fires	Percentage of Total	Dollar Loss	Percentage of Total
Less than	$ 100.00	2,730	45.67%	$ 15,570	.04%
100.00 to	999.99	1,463	24.48	552,376	1.53
1,000.00 to	9,999.99	1,178	19.71	3,660,120	10.11
10,000.00 to	49,999.99	451	7.55	9,523,888	26.30
50,000.00 to	249,999.99	135	2.26	12,757,859	35.23
250,000 and greater		20	.33	9,699,947	26.79
Total		**5,977**	**100.00%**	**$36,209,760**	**100.00%**

Table No. 2

FIRES AND FIRE LOSSES BY MONTH, 1982

Month	Number of Fires	Percentage of Total	Dollar Loss	Percentage of Total
January	505	8.45%	$ 5,543,395	15.30%
February	384	6.42	5,155,283	14.24
March	367	6.14	3,136,290	8.66
April	691	11.56	3,477,083	9.60
May	680	11.38	2,122,277	5.86
June	539	9.02	1,983,146	5.48
July	450	7.53	1,436,748	3.97
August	454	7.60	2,203,981	6.09
September	528	8.83	4,033,769	11.14
October	464	7.76	1,495,988	4.13
November	489	8.18	1,971,728	5.45
December	426	7.13	3,650,072	10.08
Total	**5,977**	**100.00%**	**$36,209,760**	**100.00%**

Chart No. 3

NUMBER OF FIRES BY DAY OF WEEK,

1982

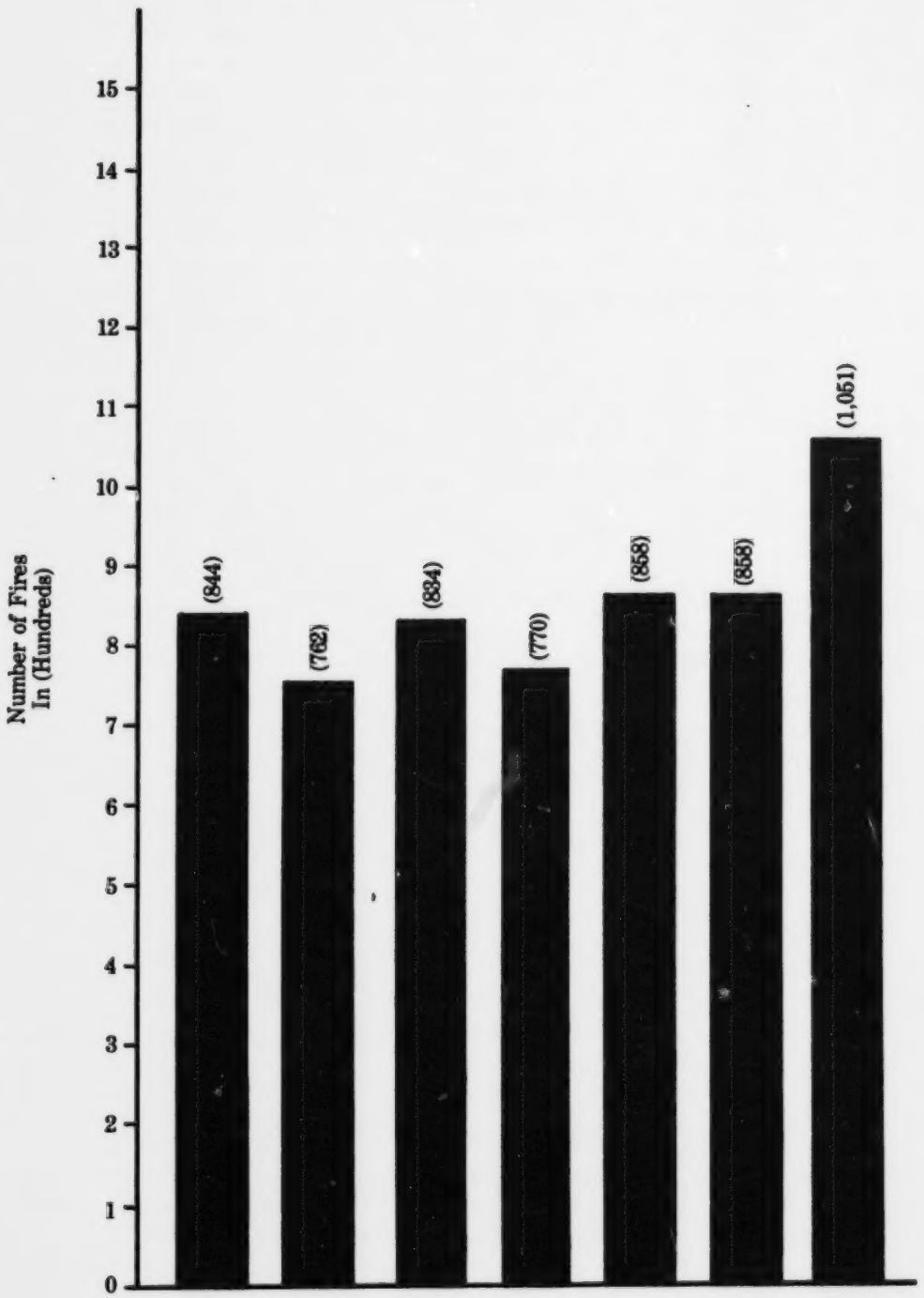


Chart No. 4

DOLLAR LOSS BY DAY OF WEEK,

1982

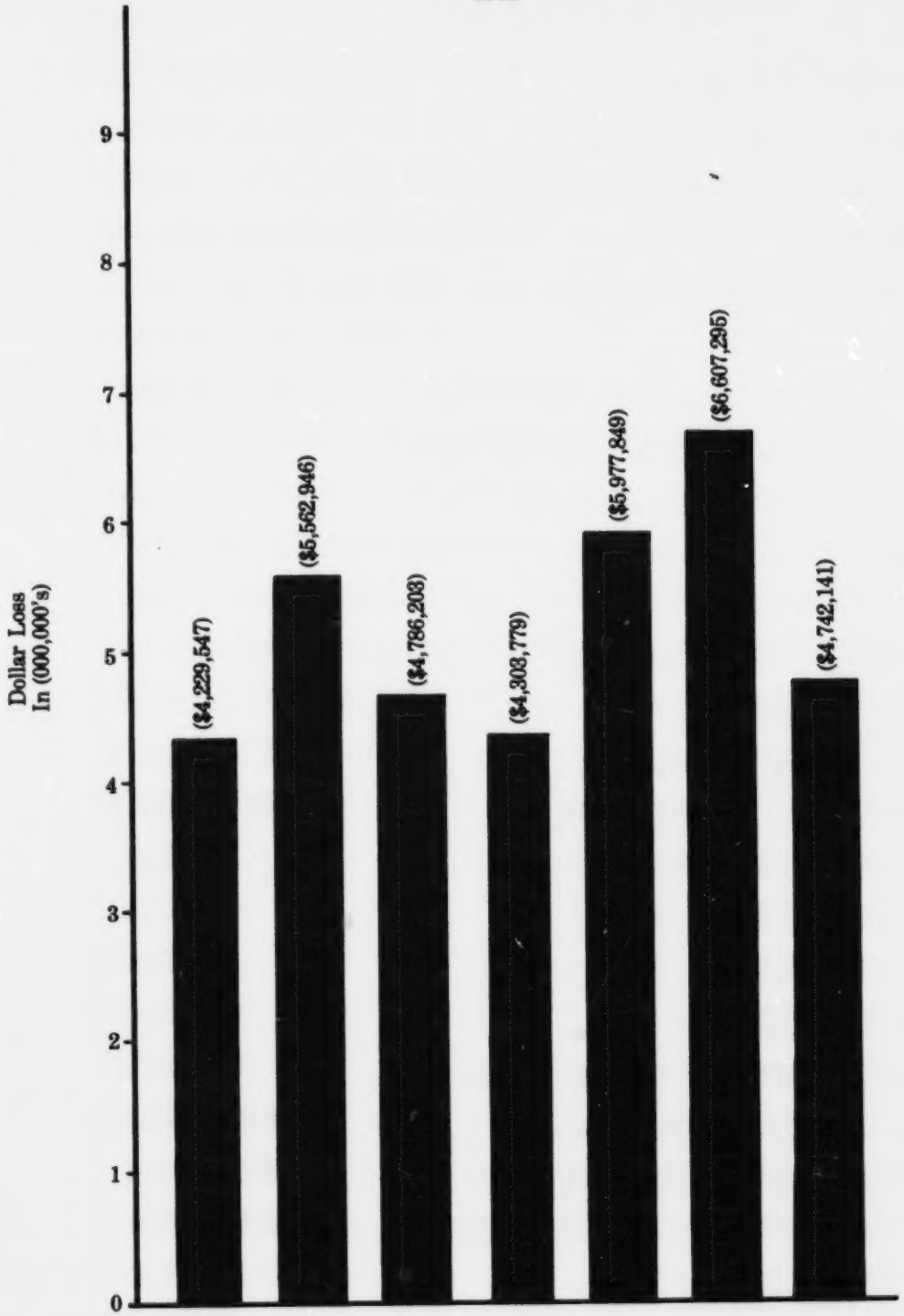


Chart No. 5
NUMBER OF FIRES BY HOUR OF DAY, 1982

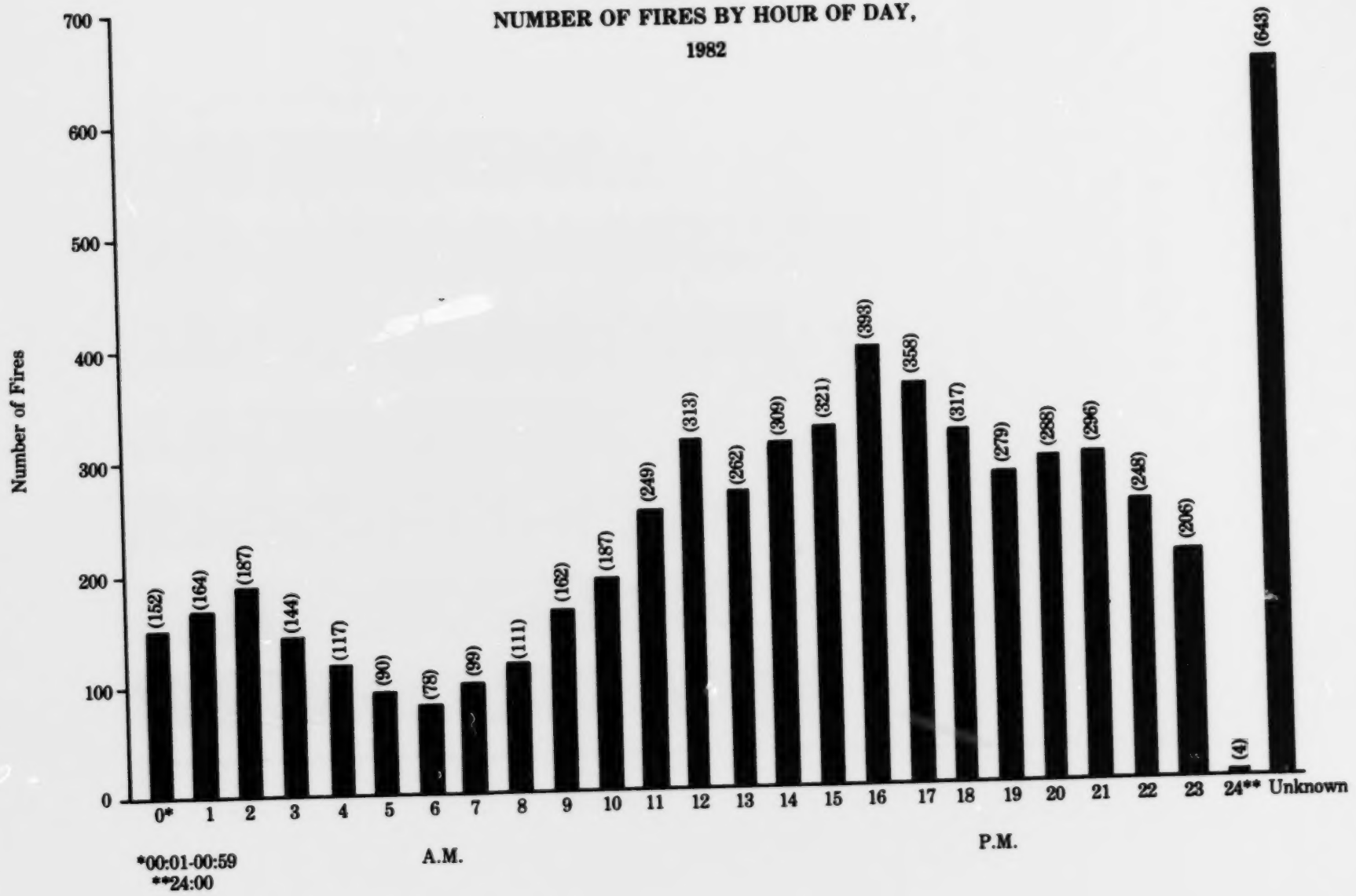


Chart No. 6

DOLLAR LOSS BY HOUR OF DAY, 1982

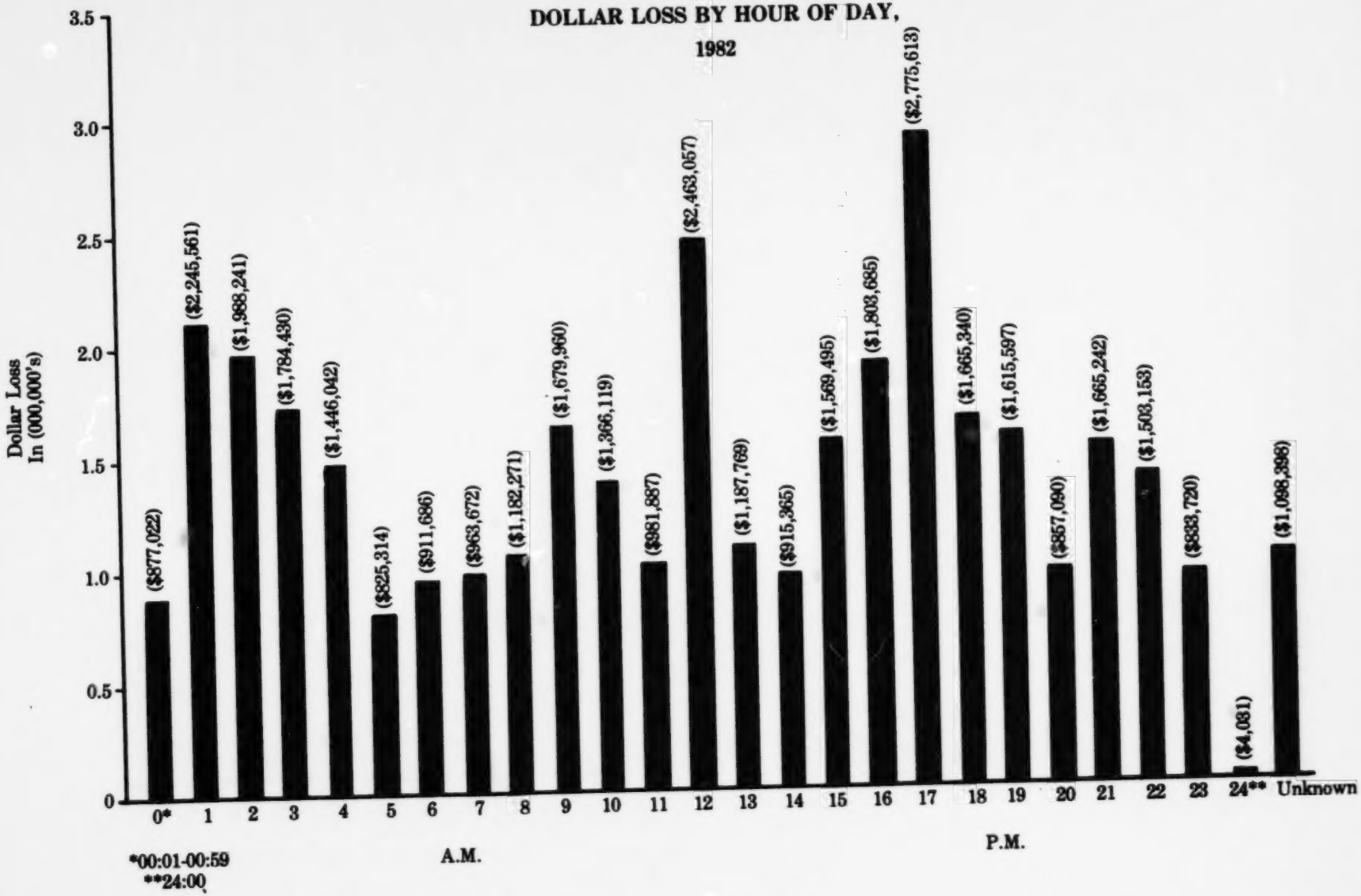


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Table No. 3

NUMBER OF FIRES RESULTING IN DEATH AND DETAILS OF FATALITIES, 1973 - 1982

Year	Number of Fatal Fires	Men	Women	Children[1]	Total Fatalities
1973	27	17	8	10	35
1974	42	28	22	22	72
1975	30	16	11	8	35
1976	33	27	12	9	48
1977	43	46	15	14	75
1978	39	31	8	13	52
1979	32	24	6	14	44
1980	27	13	11	12	36
1981	36	25	15	12	52
1982	30	15	13	11	39

[1]Fifteen years of age and under

Chart No. 7

NUMBER OF FATAL FIRES AND BREAKDOWNS OF FATALITIES, 1973 - 1982

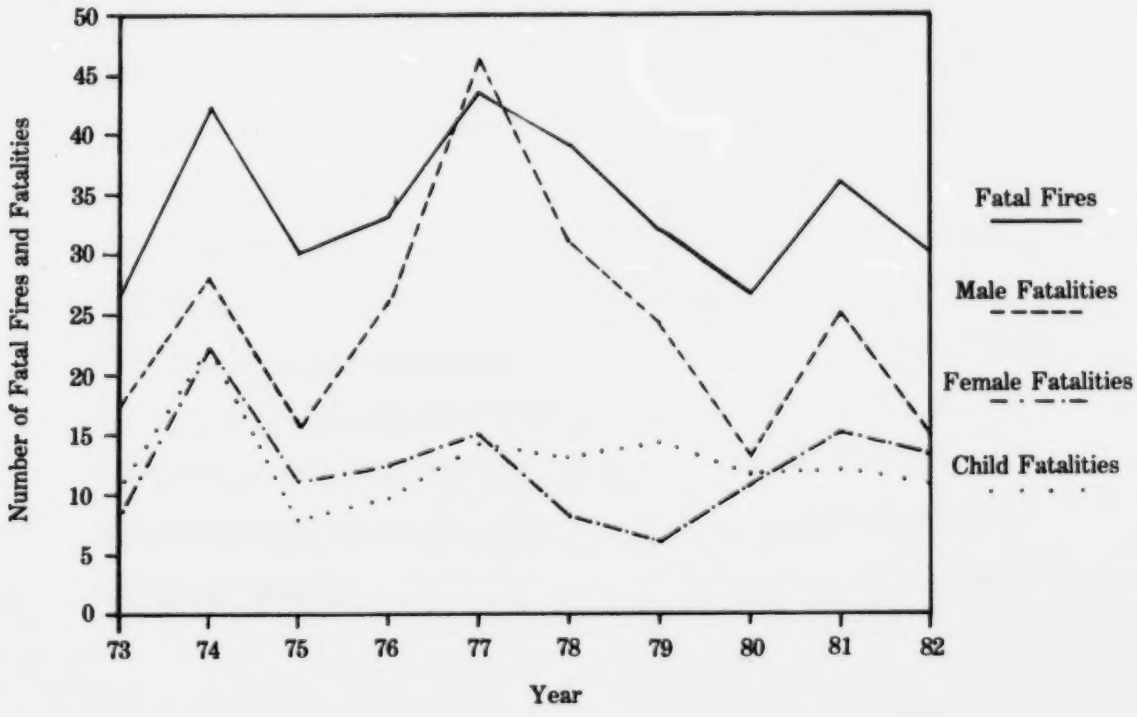

Table No. 4

NUMBER OF FATALITIES BY FIRE,

1982

	Men	Women	Children	Total
Fatalities	15	13	11	39

Table No. 5

FIRE FATALITIES BY AGE AND SEX,

1982

	Five Years and Under	6-14	15-17	18-39	40-64	65 & Over	Unknown	Total
Male	1	5	-	7	3	5	-	21
Female	4	1	-	2	4	7	-	18
Total	**5**	**6**	**-**	**9**	**7**	**12**	**-**	**39**

Table No. 6

NUMBER OF FIRE INJURIES,

1982

	Men	Women	Children	Total
Injuries	225	44	19	288

Table No. 7

FIRE INJURIES BY AGE AND SEX,

1982

	Five Years and Under	6-14	15-17	18-39	40-64	65 & Over	Unknown	Total
Male	6	6	5	116	82	10	13	238
Female	5	1	1	20	9	10	4	50
Total	**11**	**7**	**6**	**136**	**91**	**20**	**17**	**288**

Chart No. 8

FIRE CASUALTIES BY HOUR OF DAY,

1982

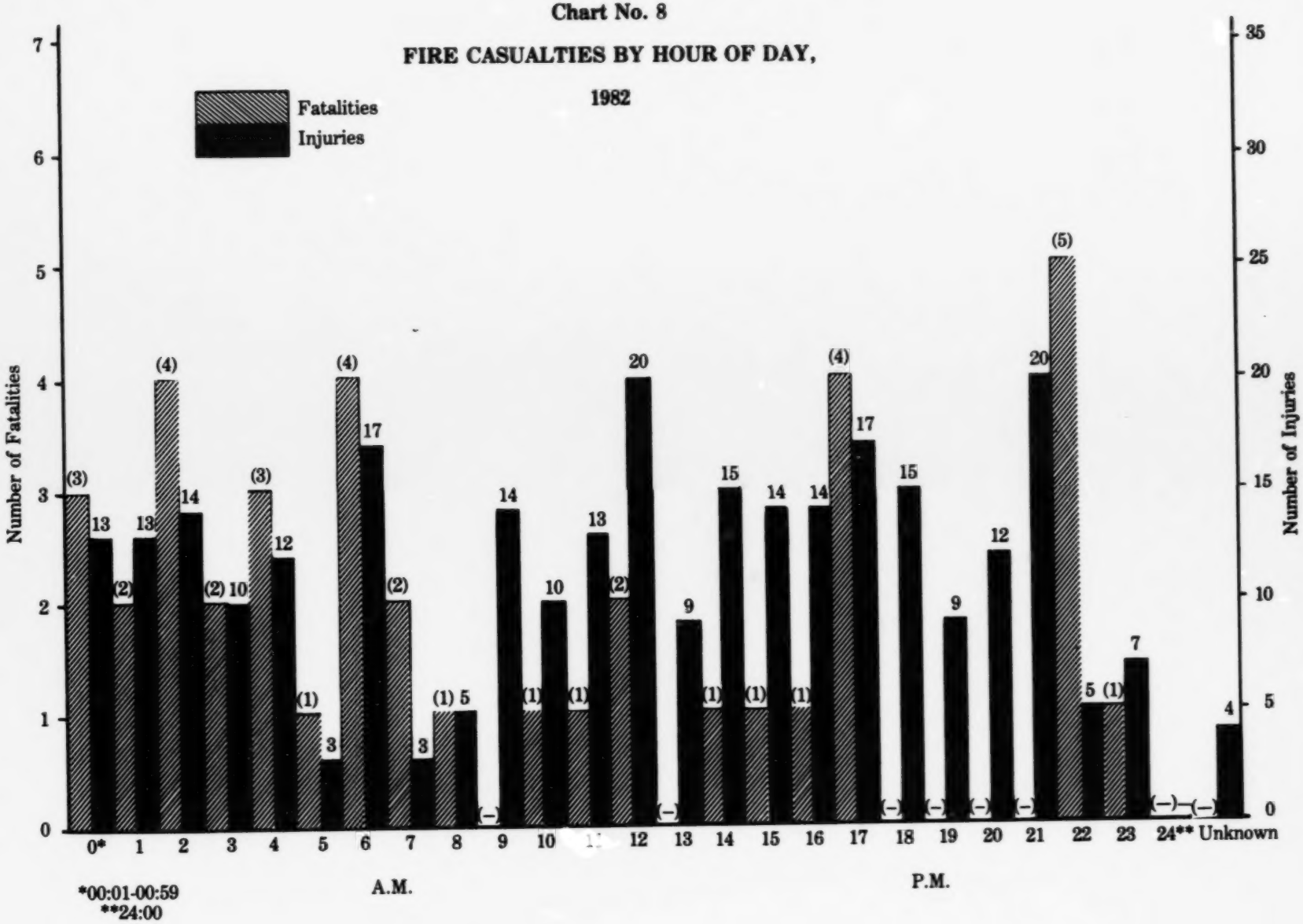

Table No. 8

BREAKDOWN OF FIRE FATALITIES BY ACT OR OMISSION, 1982

Act or Omission	Men	Women	Children	Total	Percent
Incendiary or Set Fire	3	1	-	4	10.26%
Misuse of Source of Ignition	1	3	5	9	23.09
Misuse of Material Ignited	1	-	-	1	2.56
Mechanical, Electrical Failure, Malfunction	1	3	-	4	10.26
Construction, Design or Installation Deficiency	-	1	-	1	2.56
Misuse of Equipment	-	-	-	-	-
Human Failing	6	3	4	13	33.33
Vehicle Accident	1	-	-	1	2.56
Still Under Investigation	-	1	-	1	2.56
Undetermined	1	-	2	3	7.69
Unclassified	1	1	-	2	5.13
Total	**15**	**13**	**11**	**39**	**100.00%**

Table No. 9

CIRCUMSTANCES CONTRIBUTING TO FIRE CASUALTIES, 1982

Condition of Casualty at Time of Fire	Fatalities	Injuries
Not applicable	3	196
Asleep at time of fire	11	32
Bedridden or other physical or mental handicap	3	4
Impairment by Alcohol	4	11
Impairment by Drugs	-	2
Under restraint or detention	-	-
Too young to act	5	4
Senile	-	-
Left unattended (children)	-	1
Unclassified or unknown	13	38
	39	288

Action of Casualty at Time of Fire	Fatalities	Injuries
Not applicable	8	107
Injured while attempting to escape	4	23
Over-exertion, heart attack, etc.	-	4
Voluntarily entered or remained for rescue purposes	-	8
Voluntarily entered or remained for fire fighting	-	102
Voluntarily entered or remained to save personal property	1	8
Loss of judgement; panic	4	4
Received delayed warning	-	4
Parents or guardian injured	-	-
Unclassified or unknown	22	28
	39	288

Table No. 9 (continued)

CIRCUMSTANCES CONTRIBUTING TO FIRE CASUALTIES, 1982

Ignition of Clothing at Time of Fire	Fatalities	Injuries
Not applicable	13	227
Outer clothing	3	15
Sleepwear	3	5
Underclothing	-	1
Costume	-	1
Bedding or bed linen; mattress or pillow	-	8
Upholstered furniture	1	9
Unclassified or unknown	19	22
	39	288

Type of Fabric or Material Ignited	Fatalities	Injuries
Not applicable	17	236
Cotton	4	5
Wool	-	3
Other natural fibre	-	1
Rayon (viscose)	-	-
Other synthetic fibre	2	9
Mixture fibres	1	5
Rubber	-	-
Plastic Foam	-	-
Unclassified or unknown	15	29
	39	288

Cause of Failure to Escape	Fatalities	Injuries
Not applicable	1	239
Trapped by: rapid spread of fire/smoke through vertical openings; stairways, elevators	9	4
Trapped by: rapid spread of fire/smoke through horizontal openings	14	4
High flame spread of combustible interior finish of walls, ceilings, or floors	3	4
Building collapse	-	-
Falling Debris	-	-
Explosion	-	5
Exit blocked or obstructed by fire	-	5
Outdoor fires, includes forest and bush	-	2
Unclassified or unknown	12	25
	39	288

Table No. 10

LOSSES BY MAJOR PROPERTY CLASSIFICATIONS,

1982

Property Classification	Number of Fires	Percent	Dollar Loss	Percent
ASSEMBLY				
Theatre, Studio, Auditorium	2	.03%	$ 10,000	.03%
Amusement and Recreation Place	13	.22	206,373	.57
School, College, University	46	.77	84,989	.23
Church, Court Room, Funeral Parlour	5	.08	300,075	.83
Social, Sport Club	7	.12	291,602	.81
Library, Museum	4	.07	3,000	.01
Eating Establishment	42	.70	466,229	1.29
Passenger Terminal, Station	-	-	-	-
Miscellaneous	4	.07	168,287	.46
Sub-total	**123**	**2.06**	**1,530,555**	**4.23**
INSTITUTIONAL				
Prison, Jail, Reformatory	9	.15	706	-
Home for Aged	14	.23	1,040	.01
Children's Hospital	2	.03	-	-
Hospital, Sanitorium, Clinic	48	.81	8,277	.02
Miscellaneous	1	.02	50	-
Sub-total	**74**	**1.24**	**10,073**	**.03**
RESIDENTIAL				
Residence	1,694	28.34	11,740,456	32.41
Apartment	414	6.93	3,327,179	9.19
Rooming, Boarding House	34	.57	221,558	.61
Hotel	39	.65	525,760	1.45
Motor Hotel	3	.05	626,941	1.73
Dormitory	8	.13	604,150	1.67
Mobile Home	66	1.10	775,463	2.14
Miscellaneous	8	.13	2,543	.01
Sub-total	**2,266**	**37.90**	**17,824,050**	**49.21**
BUSINESS AND PERSONAL SERVICES				
Office	18	.31	19,530	.05
Personal Service	2	.03	75,000	.21
Electronic Equipment	-	-	-	-
Miscellaneous	6	.10	412,430	1.14
Sub-total	**26**	**.44**	**506,960**	**1.40**
MERCANTILE				
Food, Beverage Sale	8	.13	609,874	1.68
Textile, Wearing Apparel Sale	2	.03	56,390	.16
Furniture, Appliance, Hardware Sale	11	.18	758,734	2.10
Books, Newspapers, Drugs, Specialties	7	.12	43,800	.12
Recreation, Hobby Supplies	3	.05	51,835	.14
Repair Shop, Laundry, Dry Cleaner	12	.20	152,075	.42
Motor Vehicle, Boats, Sales and Service	47	.80	1,526,489	4.22
Department, Variety Store	10	.17	658,972	1.82
Miscellaneous	2	.03	300	-
Sub-total	**102**	**1.71**	**3,858,469**	**10.66**
INDUSTRIAL MANUFACTURING PROPERTIES				
Chemical, Petroleum, Paints, Plastics	5	.08	190,000	.52
Wood, Furniture, Paper Printing	17	.29	512,199	1.41
Metal, Metal Products, Electrical Appliances	22	.37	286,104	.79
Food Processing	21	.35	230,606	.64
Beverages, Tobacco, Soap, Margarine	1	.02	-	-
Textiles	-	-	-	-
Footwear, Wearing Apparel	7	.12	400	-
Vehicles and Related Equipment	6	.10	2,050	.01
Miscellaneous	8	.13	5,575	.02
Sub-total	**87**	**1.46**	**1,226,934**	**3.39**

Table No. 10 (continued)

LOSSES BY MAJOR PROPERTY CLASSIFICATIONS,

1982

Property Classification	Number of Fires	Percent	Dollar Loss	Percent
INDUSTRIAL STORAGE PROPERTIES				
Agricultural Products	36	.60$_7$	$ 2,597,530	7.17%
Textiles, Fibers, Clothing	1	.02	751	-
Processed Food, Beverages	3	.05	24,824	.07
Flammable Liquids, Gasses, Petroleum	2	.03	35,000	.10
Wood Furniture, Paper and Products	14	.23	144,496	.40
Chemicals, Plastics, Paints	-	-	-	-
Metal Goods, Machinery, Electrical Appliances	5	.08	30,473	.08
Vehicles	148	2.49	972,470	2.69
Miscellaneous	21	.35	176,721	.49
Sub-total	**230**	**3.85**	**3,982,265**	**11.00**
SPECIAL PROPERTY–TRANSPORTATION EQUIPMENT				
Outdoor Property	1,655	27.68	455,280	1.26
Pier, Wharf	4	.07	50	-
Under Construction/Demolition: Vacant	126	2.11	522,370	1.44
Watercraft	10	.17	57,496	.16
Rail Transport Vehicle and Equipment	15	.25	804,103	2.22
Ground Transport Vehicle	878	14.68	1,278,034	3.53
Aircraft	6	.10	35,108	.10
Special Vehicle	102	1.71	489,179	1.35
Miscellaneous	7	.12	4,619	.01
Sub-total	**2,803**	**46.89**	**3,646,239**	**10.07**
MISCELLANEOUS				
Laboratories	3	.05	200,000	.55
Farm Facilities	143	2.40	2,369,310	6.54
Miscellaneous Outbuildings	79	1.32	257,169	.71
Utility	27	.45	532,175	1.47
Cement, Glass, Pottery Manufacturing	2	.03	-	-
Mining, Quarrying	2	.03	76,000	.21
Communications	3	.05	150,762	.42
Nucleonics	-	-	-	-
Miscellaneous	7	.12	38,799	.11
Sub-total	**266**	**4.45**	**3,624,215**	**10.01**
Total	**5,977**	**100.00%**	**$36,209,760**	**100.00%**

Table No. 10(a)

BREAKDOWN OF AREA OF ORIGIN OF FIRES BY PROPERTY CLASSIFICATION,

1982

Area of Origin of Fire	Assembly No.	Assembly Percent	Assembly Amount	Assembly Percent	Institutional No.	Institutional Percent	Institutional Amount	Institutional Percent
Means of Egress	11	8.94%	$ 4,855	.32%	10	13.51%	$ 750	7.45%
Assembly, Sales Area	8	6.50	35,300	2.31	5	6.76	160	1.59
Function Area	54	43.90	804,531	52.55	56	75.68	6,663	66.14
Storage Area	15	12.20	346,350	22.63	1	1.35	-	-
Service Facilities	5	4.07	5,300	.35	1	1.35	2,500	24.82
Service and Equipment Area	13	10.57	128,687	8.41	-	-	-	-
Structural Area	14	11.38	205,032	13.40	1	1.35	-	-
Vehicle Area	-	-	-	-	-	-	-	-
Outside Area	-	-	-	-	-	-	-	-
Undetermined/Unclassified	3	2.44	500	.03	-	-	-	-
Total	**123**	**100.00%**	**$1,530,555**	**100.00%**	**74**	**100.00%**	**$10,073**	**100.00%**

Table No. 10(b)

BREAKDOWN OF AREA OF ORIGIN OF FIRES BY PROPERTY CLASSIFICATION,

1982

Area of Origin of Fire	Residential No.	Residential Percent	Residential Amount	Residential Percent	Business and Personal Services No.	Business and Personal Services Percent	Business and Personal Services Amount	Business and Personal Services Percent
Means of Egress	75	3.31%	$ 512,631	2.88%	1	3.85%	$ 10,000	1.97%
Assembly, Sales Area	399	17.61	3,284,648	18.43	2	7.69	60,100	11.85
Function Area	1,108	48.89	6,441,640	36.14	9	34.62	20,230	3.99
Storage Area	138	6.09	1,770,617	9.93	7	26.92	950	.19
Service Facilities	225	9.93	647,872	3.63	2	7.69	2,545	.50
Service and Equipment Area	96	4.24	953,750	5.35	-	-	-	-
Structural Area	131	5.78	2,178,435	12.22	4	15.38	413,135	81.50
Vehicle Area	2	.09	1,151	.01	-	-	-	-
Outside Area	14	.62	42,722	.24	-	-	-	-
Undetermined/Unclassified	78	3.44	1,990,584	11.17	1	3.85	-	-
Total	**2,266**	**100.00%**	**$17,824,050**	**100.00%**	**26**	**100.00%**	**$506,960**	**100.00%**

Table No. 10(c)

BREAKDOWN OF AREA OF ORIGIN OF FIRES BY PROPERTY CLASSIFICATION,

1982

Area of Origin of Fire	Mercantile No.	Mercantile Percent	Mercantile Amount	Mercantile Percent	Industrial Manufacturing Properties No.	Industrial Manufacturing Properties Percent	Industrial Manufacturing Properties Amount	Industrial Manufacturing Properties Percent
Means of Egress	3	2.94%	$ 56,890	1.47%	3	3.45%	$ 6,700	.55%
Assembly, Sales Area	9	8.82	609,522	15.80	1	1.15	50	-
Function Area	14	13.73	586,965	15.21	20	22.99	369,691	30.13
Storage Area	29	28.43	1,393,879	36.13	12	13.79	39,367	3.21
Service Facilities	1	.98	1,000	.03	9	10.34	459,636	37.47
Service and Equipment Area	18	17.65	458,017	11.87	20	22.99	187,776	15.30
Structural Area	16	15.69	400,670	10.38	15	17.24	27,600	2.25
Vehicle Area	5	4.90	6,304	.16	-	-	-	-
Outside Area	3	2.94	7,150	.19	4	4.60	-	-
Undetermined/Unclassified	4	3.92	338,072	8.76	3	3.45	136,114	11.09
Total	**102**	**100.00%**	**$3,858,469**	**100.00%**	**87**	**100.00%**	**$1,226,934**	**100.00%**

Table No. 10(d)

BREAKDOWN OF AREA OF ORIGIN OF FIRES BY PROPERTY CLASSIFICATION,

1982

Area of Origin of Fire	Industrial Storage Properties No.	Percent	Amount	Percent	Special Property — Transportation Equipment No.	Percent	Amount	Percent
Means of Egress	-	- %	$ -	- %	14	.50%	$ 33,945	.93%
Assembly, Sales Area	2	.87	100	-	8	.29	46,050	1.26
Function Area	2	.87	30,030	.75	15	.54	52,950	1.45
Storage Area	151	65.66	3,435,633	86.27	35	1.25	77,658	2.13
Service Facilities	11	4.78	185,108	4.65	11	.39	62,445	1.71
Service and Equipment Area	5	2.17	93,500	2.35	5	.18	12,203	.33
Structural Area	14	6.09	44,869	1.13	22	.78	62,195	1.71
Vehicle Area	13	5.65	37,398	.94	989	35.28	2,588,123	70.99
Outside Area	26	11.30	75,127	1.89	1,663	59.33	482,990	13.25
Undetermined/Unclassified	6	2.61	80,500	2.02	41	1.46	227,680	6.24
Total	**230**	**100.00%**	**$3,982,265**	**100.00%**	**2,803**	**100.00%**	**$3,646,239**	**100.00%**

Table No. 10(e)

BREAKDOWN OF AREA OF ORIGIN OF FIRES BY PROPERTY CLASSIFICATION,

1982

Area of Origin of Fire	Miscellaneous Properties No.	Percent	Amount	Percent	Totals of All Property Classifications No.	Percent	Amount	Percent
Means of Egress	2	.75%	$ 4,600	.13%	119	1.99%	$ 630,371	1.74%
Assembly, Sales Area	14	5.26	305	.01	448	7.50	4,036,235	11.15
Function Area	9	3.38	152,625	4.21	1,287	21.53	8,465,325	23.38
Storage Area	99	37.22	2,211,583	61.01	487	8.15	9,276,037	25.61
Service Facilities	2	.75	20,000	.55	267	4.47	1,386,406	3.83
Service and Equipment Area	17	6.39	733,210	20.23	174	2.91	2,567,143	7.09
Structural Area	11	4.14	186,476	5.15	228	3.81	3,518,412	9.72
Vehicle Area	3	1.13	6,500	.18	1,012	16.93	2,639,476	7.29
Outside Area	98	36.84	246,343	6.80	1,808	30.25	854,332	2.36
Undetermined/Unclassified	,11	4.14	62,573	1.73	147	2.46	2,836,023	7.83
Total	**266**	**100.00%**	**$3,624,215**	**100.00%**	**5,977**	**100.00%**	**$36,209,760**	**100.00%**

Table No. 11

BREAKDOWN OF ACT OR OMISSION BY PROPERTY CLASSIFICATION,

1982

Act or Omission	Assembly				Institutional			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Incendiary or Set Fire	48	39.02%	$ 676,003	44.16%	14	18.92%	$ 1,438	14.28%
Misuse of Source of Ignition	13	10.57	228,350	14.92	29	39.19	1,575	15.64
Misuse of Material Ignited	4	3.25	111,950	7.31	-	-	-	-
Mechanical, Electrical Failure, Malfunction	29	23.58	229,260	14.98	11	14.86	4,665	46.30
Construction, Design or Installation Deficiency	1	.81	10,192	.67	-	-	-	-
Misuse of Equipment	2	1.63	7,000	.46	-	-	-	-
Human Failing	11	8.94	41,800	2.73	13	17.57	295	2.93
Vehicle Accident	-	-	-	-	-	-	-	-
Unclassified	2	1.63		-	1	1.35	-	-
Undetermined/ Not Applicable	13	10.57	226,000	14.77	6	8.11	2,100	20.85
Total	123	100.00%	$1,530,555	100.00%	74	100.00%	$10,073	100.00%

Table No. 11(a)

BREAKDOWN OF ACT OR OMISSION BY PROPERTY CLASSIFICATION,

1982

Act or Omission	Residential				Business and Personal Services			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Incendiary or Set Fire	159	7.02%	$ 2,566,866	14.41%	7	26.91%	$105,100	20.73%
Misuse of Source of Ignition	504	22.24	2,021,463	11.34	6	23.08	10,735	2.12
Misuse of Material Ignited	92	4.06	784,291	4.40	-		-	-
Mechanical, Electrical Failure, Malfunction	465	20.52	3,230,466	18.12	6	23.08	390,325	76.99
Construction, Design or Installation Deficiency	116	5.12	911,635	5.11	1	3.85	300	.06
Misuse of Equipment	21	.93	68,350	.38	-	-	-	-
Human Failing	579	25.55	2,536,653	14.23	1	3.85	100	.02
Vehicle Accident	-	-	-	-	-	-	-	-
Unclassified	66	2.91	180,804	1.01	-	-	-	-
Undetermined/ Not Applicable	264	11.65	5,523,522	31.00	5	19.23	400	.08
Total	2,266	100.00%	$17,824,050	100.00%	26	100.00%	$506,960	100.00%

Table No. 11(b)

BREAKDOWN OF ACT OR OMISSION BY PROPERTY CLASSIFICATION,

1982

Act or Omission	Mercantile				Industrial Manufacturing Properties			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Incendiary or Set Fire	30	29.41%	$1,067,984	27.68%	6	6.90%	$ 128,550	10.48%
Misuse of Source of Ignition	20	19.61	1,013,988	26.28	14	16.09	53,100	4.33
Misuse of Material Ignited	3	2.94	44,200	1.15	9	10.34	8,762	.71
Mechanical, Electrical Failure, Malfunction	23	22.55	559,266	14.49	22	25.29	598,553	48.78
Construction, Design or Installation Deficiency	2	1.96	1,850	.05	2	2.30	10,200	.83
Misuse of Equipment	1	.98	18,500	.48	3	3.45	300	.02
Human Failing	5	4.90	6,374	.17	-	-	-	-
Vehicle Accident	3	2.94	12,000	.31	-	-	-	-
Unclassified	1	.98	-	-	9	10.34	46,851	3.82
Undetermined/ Not Applicable	14	13.73	1,134,307	29.39	22	25.29	380,618	31.03
Total	**102**	**100.00%**	**$3,858,469**	**100.00%**	**87**	**100.00%**	**$1,226,934**	**100.00%**

Table No. 11(c)

BREAKDOWN OF ACT OR OMISSION BY PROPERTY CLASSIFICATION,

1982

Act or Omission	Industrial Storage Properties				Special Property – Transportation Equipment			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Incendiary or Set Fire	71	30.88%	$ 216,502	5.44%	1,143	40.77%	$ 325,459	8.93%
Misuse of Source of Ignition	26	11.30	172,122	4.32	402	14.34	416,319	11.42
Misuse of Material Ignited	15	6.52	293,434	7.37	38	1.36	145,045	3.98
Mechanical, Electrical Failure, Malfunction	34	14.78	449,768	11.29	578	20.62	972,446	26.67
Construction, Design or Installation Deficiency	15	6.52	119,200	2.99	8	.29	16,870	.46
Misuse of Equipment	4	1.74	40,320	1.01	-	-	-	-
Human Failing	4	1.74	3,631	.09	35	1.25	25,264	.69
Vehicle Accident	-	-	-	-	33	1.18	656,632	18.01
Unclassified	10	4.35	45,024	1.13	79	2.82	58,222	1.60
Undetermined/ Not Applicable	51	22.17	2,642,264	66.36	487	17.37	1,029,982	28.24
Total	**230**	**100.00%**	**$3,982,265**	**100.00%**	**2,803**	**100.00%**	**$3,646,239**	**100.00%**

Table No. 11(d)

BREAKDOWN OF ACT OR OMISSION BY PROPERTY CLASSIFICATION,

1982

Act or Omission	Miscellaneous Properties				Totals of All Property Classifications			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Incendiary or Set Fire	59	22.18%	$ 277,469	7.66%	1,537	25.71%	$ 5,365,371	14.82%
Misuse of Source of Ignition	55	20.68	258,820	7.14	1,069	17.89	4,176,472	11.53
Misuse of Material Ignited	7	2.63	79,567	2.20	168	2.81	1,467,249	4.05
Mechanical, Electrical Failure, Malfunction	46	17.29	1,380,760	38.09	1,214	20.31	7,815,509	21.58
Construction, Design or Installation Deficiency	10	3.76	107,532	2.97	155	2.59	1,177,779	3.25
Misuse of Equipment	3	1.13	22,720	.63	34	.57	157,190	.43
Human Failing	5	1.88	3,175	.09	653	10.93	2,617,292	7.23
Vehicle Accident	1	.38	500	.01	37	.62	669,132	1.85
Unclassified	21	7.89	29,602	.82	189	3.16	360,503	1.00
Undetermined/ Not Applicable	59	22.18	1,464,070	40.39	921	15.41	12,403,263	34.26
Total	**266**	**100.00%**	**$3,624,215**	**100.00%**	**5,977**	**100.00%**	**$36,209,760**	**100.00%**

Table No. 12

BREAKDOWN OF SOURCE OF HEAT OF IGNITION

BY PROPERTY CLASSIFICATION,

1982

Source of Heat of Ignition	Assembly				Institutional			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Electrical Distribution Equipment – Aluminum	-	- %	$ -	- %	-	- %	$ -	- %
Heating Equipment	10	8.13	118,963	7.77	1	1.35	-	-
Cooking Equipment	21	17.07	119,262	7.79	11	14.86	95	.94
Smoker's Material	4	3.25	202,700	13.24	26	35.15	1,475	14.64
Electrical Distribution Equipment – Copper	5	4.07	27,600	1.80	3	4.05	3,365	33.42
Electrical Appliance and Equipment	4	3.25	25,902	1.69	4	5.41	500	4.96
Other Appliance and Equipment	4	3.25	50		3	4.05	500	4.96
Open Flame	57	46.35	638,503	41.73	18	24.32	1,238	12.29
Exposure	1	.81	300	.02	-	-	-	-
Miscellaneous	3	2.44	108,300	7.08	2	2.70	300	2.98
Undetermined/Unclassified	14	11.38	288,975	18.88	6	8.11	2,600	25.81
Total	123	100.00%	$1,530,555	100.00%	74	100.00%	$10,073	100.00%

Table No. 12(a)

BREAKDOWN OF SOURCE OF HEAT OF IGNITION

BY PROPERTY CLASSIFICATION,

1982

Source of Heat of Ignition	Residential				Business and Personal Services			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Electrical Distribution Equipment – Aluminum	3	.13%	$ 32,550	.18%	-	- %	$ -	- %
Heating Equipment	432	19.06	2,645,160	14.84	1	3.85	-	-
Cooking Equipment	600	26.48	2,097,505	11.77	1	3.85	100	.02
Smoker's Material	367	16.20	1,296,654	7.27	3	11.53	710	.14
Electrical Distribution Equipment – Copper	126	5.56	2,063,727	11.58	5	19.23	390,625	77.06
Electrical Appliance and Equipment	75	3.31	267,467	1.50	1	3.85	-	-
Other Appliance and Equipment	73	3.22	133,501	.75	-	-	-	-
Open Flame	311	13.72	3,257,417	18.28	9	34.61	115,100	22.70
Exposure	19	.84	185,539	1.04	-	-	-	-
Miscellaneous	48	2.12	217,536	1.22	1	3.85	25	-
Undetermined/Unclassified	212	9.36	5,626,994	31.57	5	19.23	400	.08
Total	2,266	100.00%	$17,824,050	100.00%	26	100.00%	$506,960	100.00%

Table No. 12(b)

BREAKDOWN OF SOURCE OF HEAT OF IGNITION

BY PROPERTY CLASSIFICATION,

1982

Source of Heat of Ignition	Mercantile No.	Mercantile Percent	Mercantile Amount	Mercantile Percent	Industrial Manufacturing Properties No.	Industrial Manufacturing Properties Percent	Industrial Manufacturing Properties Amount	Industrial Manufacturing Properties Percent
Electrical Distribution Equipment – Aluminum	1	.98%	$ -	- %	-	- %	$ -	- %
Heating Equipment	6	5.88	33.710	.87	4	4.60	59,200	4.83
Cooking Equipment	2	1.96	441,374	11.44	4	4.60	2,206	.18
Smoker's Material	6	5.88	611,667	15.85	-	-	-	-
Electrical Distribution Equipment – Copper	11	10.78	103,916	2.69	7	8.05	31,331	2.55
Electrical Appliance and Equipment	7	6.86	7,500	.19	9	10.34	133,636	10.89
Other Appliance and Equipment	8	7.84	9,800	.25	7	8.05	700	.06
Open Flame	32	31.38	561,871	14.56	21	24.13	56,836	4.63
Exposure	13	12.75	723,224	18.75	-	-	-	-
Miscellaneous	3	2.94	40,100	1.04	18	20.69	506,049	41.24
Undetermined/Unclassified	13	12.75	1,325,307	34.36	17	19.54	436,976	35.62
Total	**102**	**100.00%**	**$3,858,469**	**100.00%**	**87**	**100.00%**	**$1,226,934**	**100.00%**

Table No. 12(c)

BREAKDOWN OF SOURCE OF HEAT OF IGNITION

BY PROPERTY CLASSIFICATION,

1982

Source of Heat of Ignition	Industrial Storage Properties No.	Industrial Storage Properties Percent	Industrial Storage Properties Amount	Industrial Storage Properties Percent	Special Property – Transportation Equipment No.	Special Property – Transportation Equipment Percent	Special Property – Transportation Equipment Amount	Special Property – Transportation Equipment Percent
Electrical Distribution Equipment – Aluminum	-	- %	$ -	- %	-	- %	$ -	- %
Heating Equipment	29	12.61	529,343	13.29	23	.82	36,365	1.00
Cooking Equipment	4	1.74	21,672	.54	15	.54	6,835	.19
Smoker's Material	7	3.04	50,700	1.27	64	2.28	32,602	.89
Electrical Distribution Equipment – Copper	15	6.52	126,178	3.17	386	13.77	493,536	13.54
Electrical Appliance and Equipment	10	4.35	64,016	1.61	26	.93	33,332	.91
Other Appliance and Equipment	9	3.91	82,643	2.08	190	6.78	330,810	9.07
Open Flame	77	33.49	280,389	7.04	1,472	52.51	738,256	20.25
Exposure	9	3.91	18,921	.48	40	1.43	25,303	.69
Miscellaneous	13	5.65	100,016	2.51	51	1.82	160,478	4.40
Undetermined/Unclassified	57	24.78	2,708,387	68.01	536	19.12	1,788,722	49.06
Total	**230**	**100.00%**	**$3,982,265**	**100.00%**	**2,803**	**100.00%**	**$3,646,239**	**100.00%**

Table No. 12(d)

BREAKDOWN OF SOURCE OF HEAT OF IGNITION

BY PROPERTY CLASSIFICATION

1982

Source of Heat of Ignition	Miscellaneous Properties No.	Percent	Amount	Percent	Totals of All Property Classifications No.	Percent	Amount	Percent
Electrical Distribution Equipment – Aluminum	-	- %	$ -	- %	4	.07	$ 32,550	.09%
Heating Equipment	13	4.89	195,835	5.40	519	8.68	3,618,576	9.99
Cooking Equipment	4	1.50	1,900	.05	662	11.1	2,690,949	7.43
Smoker's Material	6	2.26	650	.02	483	8.08	2,197,158	6.07
Electrical Distribution Equipment – Copper	40	15.04	620,881	17.13	598	10.01	3,861,159	10.66
Electrical Appliance and Equipment	15	5.64	867,435	23.93	151	2.53	1,399,788	3.87
Other Appliance and Equipment	9	3.38	4,525	.12	303	5.07	562,529	1.55
Open Flame	95	35.71	364,005	10.04	2,092	34.99	6,013,615	16.61
Exposure	5	1.88	1,700	.05	87	1.46	954,987	2.64
Miscellaneous	16	6.02	110,084	3.04	155	2.59	1,242,888	3.43
Undetermined/Unclassified	63	23.68	1,457,200	40.22	923	15.44	13,635,561	37.66
Total	**266**	**100.00%**	**$3,624,215**	**100.00%**	5,977	**100.00%**	$36,209,760	**100.00%**

Table No. 13

BREAKDOWN OF FUEL OR ENERGY BY PROPERTY CLASSIFICATION,

1982

Fuel or Energy	Assembly				Institutional			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Coal, Wood	16	13.01%	$ 15,448	1.01%	6	8.11%	$ 297	2.95%
Fuel Oil	3	2.44	94,884	6.20	1	1.35	-	-
Gasoline	1	.81	-	-	-	-	-	-
Natural Gas	16	13.01	63,900	4.17	-	-	-	-
Propane	7	5.69	700	.05	6	8.11	400	3.97
Smoker's Material	4	3.25	202,700	13.24	26	35.13	1,475	14.64
Electricity	20	16.26	144,106	9.42	19	25.68	4,460	44.28
Lightning		-	-	-	-	-	-	-
Unclassified	8	6.50	112,450	7.35	2	2.70	-	-
Undetermined/ Not Applicable	48	39.03	896,367	58.56	14	18.92	3,441	34.16
Total	123	100.00%	$1,530,555	100.00%	74	100.00%	$10,073	100.0 %

Table No. 13(a)

BREAKDOWN OF FUEL OR ENERGY BY PROPERTY CLASSIFICATION,

1982

Fuel or Energy	Residential				Business and Personal Services			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Coal, Wood	426	18.80%	$ 1,933,005	10.84%	-	- %	$ -	- %
Fuel Oil	27	1.19	43,911	.25	-	-	-	-
Gasoline	14	.62	273,124	1.53	2	7.69	75,000	14.79
Natural Gas	37	1.63	263,413	1.48	-	-	-	-
Propane	64	2.82	516,511	2.90	1	3.85	-	-
Smoker's Material	375	16.55	1,332,962	7.48	3	11.54	710	.14
Electricity	852	37.60	4,946,772	27.75	8	30.77	390,725	77.08
Lightning	33	1.46	115,594	.65	-	-	-	-
Unclassified	46	2.03	275,992	1.55	-	-	-	-
Undetermined/ Not Applicable	392	17.30	8,122,766	45.57	12	46.15	40,525	7.99
Total	2,266	100.00%	$17,824,050	100.00%	26	100.00%	$506,960	100.00%

Table No. 13(b)

BREAKDOWN OF FUEL OR ENERGY BY PROPERTY CLASSIFICATION,

1982

Fuel or Energy	Mercantile				Industrial Manufacturing Properties			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Coal, Wood	11	10.78%	$ 141,184	3.66%	18	20.69%	$ 36,177	2.95%
Fuel Oil	4	3.92	6,700	.17	-	-	-	-
Gasoline	5	4.90	4,550	.12	-	-	-	-
Natural Gas	-	-	-	-	5	5.75	1,800	.15
Propane	3	2.94	70,254	1.82	5	5.75	53,850	4.39
Smoker's Material	12	11.76	987,167	25.58	-	-	-	-
Electricity	27	26.48	605,083	15.68	21	24.14	179,857	14.66
Lightning	-	-	-	-	-	-	-	-
Unclassified	6	5.88	250,050	6.48	5	5.75	22,302	1.82
Undetermined/ Not Applicable	34	33.34	1,793,481	46.49	33	37.92	932,948	76.03
Total	102	100.00%	$3,858,469	100.00%	87	100.00%	$1,226,934	100.00%

Table No. 13(c)

BREAKDOWN OF FUEL OR ENERGY BY PROPERTY CLASSIFICATION,

1982

Fuel or Energy	Industrial Storage Properties No.	Percent	Amount	Percent	Special Property — Transportation Equipment No.	Percent	Amount	Percent
Coal, Wood	36	15.66%	$ 208,018	5.22%	306	10.92%	$ 148,981	4.09%
Fuel Oil	1	.43	82,500	2.07	55	1.96	169,586	4.65
Gasoline	12	5.22	138,608	3.48	149	5.32	310,451	8.51
Natural Gas	2	.87	186,000	4.67	5	.18	7,198	.20
Propane	15	6.52	115,316	2.90	53	1.89	88,253	2.42
Smoker's Material	7	3.04	50,700	1.27	62	2.21	28,902	.79
Electricity	30	13.04	243,920	6.13	401	14.31	486,267	13.34
Lightning	4	1.74	16,635	.42	1	.04	10,000	.27
Unclassified	5	2.17	101,442	2.55	23	.82	148,930	4.08
Undetermined/ Not Applicable	118	51.31	2,839,126	71.29	1,748	62.35	2,247,671	61.65
Total	**230**	**100.00%**	**$3,982,265**	**100.00%**	**2,803**	**100.00%**	**$3,646,239**	**100.00%**

Table No. 13(d)

BREAKDOWN OF FUEL OR ENERGY BY PROPERTY CLASSIFICATION,

1982

Fuel or Energy	Miscellaneous Properties No.	Percent	Amount	Percent	Totals of All Property Classifications No.	Percent	Amount	Percent
Coal, Wood	38	14.29%	$ 193,798	5.35%	857	14.34%	$ 2,676,908	7.39%
Fuel Oil	6	2.26	67,954	1.87	97	1.62	465,535	1.29
Gasoline	9	3.38	23,125	.64	192	3.21	824,858	2.28
Natural Gas	3	1.13	6,915	.19	68	1.14	529,226	1.46
Propane	11	4.14	125,875	3.47	165	2.76	971,159	2.68
Smoker's Material	6	2.26	650	.02	495	8.28	2,606,266	7.19
Electricity	54	20.30	1,487,816	41.05	1,432	23.96	8,489,006	23.44
Lightning	8	3.01	26,552	.73	46	.77	168,781	.47
Unclassified	4	1.50	47,750	1.32	99	1.66	958,916	2.65
Undetermined/ Not Applicable	127	47.73	1,643,780	45.36	2,526	42.26	18,520,105	51.15
Total	**266**	**100.00%**	**$3,624,215**	**100.00%**	**5,977**	**100.00%**	**$36,209,760**	**100.00%**

Table No. 14

BREAKDOWN OF MATERIAL FIRST IGNITED BY PROPERTY CLASSIFICATION,

1982

Material First Ignited	Assembly No.	Assembly Percent	Assembly Amount	Assembly Percent	Institutional No.	Institutional Percent	Institutional Amount	Institutional Percent
Structural Component, Finish Material	17	13.82%	$ 81,111	5.30%	4	5.41%	$ 100	.99%
Furniture, Furnishings	2	1.63	5,300	.35	18	24.32	1,998	19.84
Clothing, Textile	10	8.13	64,500	4.21	8	10.81	315	3.13
Wood, Paper Product	27	21.95	372,100	24.31	13	17.57	100	.99
Flammable Liquid	29	23.57	218,364	14.27	5	6.76	75	.74
Flammable Gas	2	1.63	6,700	.44	1	1.35	300	2.98
Chemical	1	.81	5	-	3	4.05	100	.99
Agricultural, Forest Product	1	.81	-	-	-	-	-	-
Miscellaneous	19	15.45	309,700	20.23	21	28.38	7,085	70.34
Undetermined/Unclassified	15	12.20	472,775	30.89	1	1.35	-	-
Total	**123**	**100.00%**	**$1,530,555**	**100.00%**	**74**	**100.00%**	**$10,073**	**100.00%**

Table No. 14(a)

BREAKDOWN OF MATERIAL FIRST IGNITED BY PROPERTY CLASSIFICATION,

1982

Material First Ignited	Residential No.	Residential Percent	Residential Amount	Residential Percent	Business and Personal Services No.	Business and Personal Services Percent	Business and Personal Services Amount	Business and Personal Services Percent
Structural Component, Finish Material	385	16.99%	$ 3,540,278	19.86%	3	11.54%	$ 10,910	2.15%
Furniture, Finishing	515	22.72	2,281,599	12.80	-	-	-	-
Clothing, Textile	93	4.10	409,895	2.30	3	11.54	205	.04
Wood, Paper Product	195	8.61	555,484	3.12	5	19.23	382,575	75.46
Flammable Liquid	508	22.42	2,528,474	14.19	4	15.38	75,025	14.80
Flammable Gas	12	.53	569,479	3.20	-	-	-	-
Chemical	23	1.02	82,845	.46	-	-	-	-
Agricultural, Forest Product	19	.84	31,586	.18	-	-	-	-
Miscellaneous	276	12.18	976,732	5.48	7	26.93	8,245	1.63
Undetermined/Unclassified	240	10.59	6,847,678	38.41	4	15.38	30,000	5.92
Total	**2,266**	**100.00%**	**$17,824,050**	**100.00%**	**26**	**100.00%**	**$506,960**	**100.00%**

Table No. 14(b)

BREAKDOWN OF MATERIAL FIRST IGNITED BY PROPERTY CLASSIFICATION,

1982

Material First Ignited	Mercantile No.	Mercantile Percent	Mercantile Amount	Mercantile Percent	Industrial Manufacturing Properties No.	Industrial Manufacturing Properties Percent	Industrial Manufacturing Properties Amount	Industrial Manufacturing Properties Percent
Structural Component, Finish Material	13	12.75%	$ 253,154	6.56%	17	19.54%	$ 162,392	13.24%
Furniture, Furnishing	1	.98	3,500	.09	-	-	-	-
Clothing, Textile	3	2.94	1,325	.03	5	5.75	8,075	.66
Wood, Paper Product	14	13.73	607,543	15.75	20	22.98	527,333	42.98
Flammable Liquid	20	19.61	597,841	15.49	6	6.90	350	.03
Flammable Gas	1	.98	-	-	2	2.30	48,150	3.92
Chemical	-	-	-	-	5	5.75	21,450	1.75
Agricultural, Forest Product	3	2.94	-	-	6	6.90	1,000	.08
Miscellaneous	27	26.46	516,575	13.39	19	21.83	13,488	1.10
Undetermined/Unclassified	20	19.61	1,878,531	48.69	7	8.05	444,696	36.24
Total	**102**	**100.00%**	**$3,858,469**	**100.00%**	**87**	**100.00%**	**$1,226,934**	**100.00%**

Table No. 14(c)

BREAKDOWN OF MATERIAL FIRST IGNITED BY PROPERTY CLASSIFICATION,

1982

Material First Ignited	Industrial Storage Properties				Special Property — Transportation Equipment			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Structural Component, Finish Material	36	15.65%	$ 381,364	9.58%	27	.96%	$ 107,720	2.95%
Furniture, Furnishing	9	3.91	17,531	.44	43	1.53	43,081	1.18
Clothing, Textile	3	1.30	82,725	2.08	39	1.39	28,941	.79
Wood, Paper Product	36	15.65	151,916	3.81	79	2.82	105,785	2.90
Flammable Liquid	22	9.57	180,820	4.54	233	8.31	639,624	17.55
Flammable Gas	2	.87	20,030	.50	18	.64	491,172	13.47
Chemical	-	-	-	-	26	.93	26,170	.72
Agricultural, Forest Product	23	10.00	193,908	4.87	696	24.83	431,754	11.84
Miscellaneous	28	12.17	98,018	2.46	1,281	45.71	533,261	14.62
Undetermined/Unclassified	71	30.88	2,855,953	71.72	361	12.88	1,238,731	33.98
Total	**230**	**100.00%**	**$3,982,265**	**100.00%**	2,803	100.00%	$3,646,239	100.00%

Table No. 14(d)

BREAKDOWN OF MATERIAL FIRST IGNITED BY PROPERTY CLASSIFICATION,

1982

Material First Ignited	Miscellaneous Properties				Totals of All Property Classifications			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Structural Component, Finish Material	31	11.65%	$ 660,350	18.22%	533	8.92%	$ 5,197,379	14.35%
Furniture, Furnishing	1	.38	100	-	589	9.85	2,353,109	6.50
Clothing, Textile	1	.38	1,775	.05	165	2.76	597,756	1.65
Wood, Paper Product	29	10.90	109,400	3.02	418	6.99	2,812,236	7.77
Flammable Liquid	10	3.76	90,550	2.50	837	14.00	4,331,123	11.96
Flammable Gas	3	1.13	4,625	.13	41	.69	1,140,456	3.15
Chemical	-	-	-	-	58	.97	130,570	.36
Agricultural, Forest Product	88	33.08	436,544	12.05	836	13.99	1,094,792	3.02
Miscellaneous	44	16.54	196,299	5.42	1,722	28.81	2,659,403	7.34
Undetermined/Unclassified	59	22.18	2,124,572	58.61	778	13.02	15,892,936	43.90
Total	**266**	**100.00%**	**$3,624,215**	**100.00%**	5,977	100.00%	$36,209,760	100.00%

Table No. 15

NUMBER OF FIRES AND AMOUNT OF FIRE LOSS BY COMMUNITY OR AREA, 1982

Municipal Code	Name	No. of Fires	Amount of Loss
001	R.M. of Albert	3	$ 17,578
002	Town of Altona	4	500
003	Village of Arborg	4	561,747
005	R.M. of Argyle	6	108,247
006	R.M. of Arthur	5	105,788
010	Town of Beausejour	14	36,797
011	Village of Benito	2	65,000
012	R.M. of Bifrost	11	20,008
013	Village of Binscarth	1	1,541
014	R.M. of Birtle	2	92,300
015	Town of Birtle	4	4,678
016	R.M. of Blanshard	3	7,864
017	Town of Boissevain	5	44,961
018	R.M. of Boulton	3	6,296
019	Village of Bowsman	1	-
020	City of Brandon	242	2,781,417
021	R.M. of Brenda	7	21,416
022	R.M. of Brokenhead	25	244,017
023	Department of Government Services	22	963
027	Town of Carberry	5	7,479
028	Town of Carman	8	38,350
029	R.M. of Cartier	10	146,416
033	R.M. of Coldwell	20	96,271
034	R.M. of Cornwallis	13	445,631
035	Village of Crystal City	2	1,200
038	R.M. of Daly	2	32,831
039	R.M. of Dauphin	21	46,337
040	Town of Dauphin	38	744,186
041	Town of Deloraine	2	84,800
042	R.M. of De Salaberry	18	89,668
043	R.M. of Dufferin	15	187,211
044	Village of Dunnottar	5	4,595
045	Village of Darlingford	2	1,200
048	R.M. of East St. Paul	19	70,701
049	R.M. of Edward	5	92,651
050	Village of Elkhorn	5	3,122
051	R.M. of Ellice	2	2 800
052	R.M. of Elton	9	280,894
055	R.M. of Eriksdale	7	15,412
056	R.M. of Ethelbert	7	12,000
057	Village of Ethelbert	3	6,500
059	Village of Fannystelle	1	360
060	City of Flin Flon	51	295,847
063	R.M. of Franklin	15	50,750
067	R.M. of Gilbert Plains	9	115,836
069	R.M. of Gimli	13	350,649
072	Village of Glenboro	4	1,750
073	R.M. of Glenella	3	37,423
074	R.M. of Glenwood	6	13,250
075	R.M. of Grandview	2	72,776
077	Village of Grand Marais	4	59,530
078	Village of Gretna	1	1,575
079	R.M. of Grey	5	2,100
081	Village of Haywood	2	85,000
082	R.M. of Hamiota	4	18,384
083	Village of Hamiota	3	14,250

Table No. 15 (continued)

NUMBER OF FIRES AND AMOUNT OF FIRE LOSS BY COMMUNITY OR AREA, 1982

Municipal Code	Name	No. of Fires	Amount of Loss
084	R.M. of Hanover	39	$ 294,254
085	R.M. of Harrison	2	1,500
086	Town of Hartney	2	4,731
087	R.M. of Hillsburg	4	3,500
090	Town of Killarney	9	48,634
091	Community of Kleefeld	2	11,761
093	R.M. of La Broquerie	8	288,734
094	R.M. of Lac du Bonnet	15	75,868
095	Village of Lac du Bonnet	9	250,824
096	R.M. of Lakeview	1	-
097	R.M. of Langford	9	31,900
098	R.M. of Lansdowne	1	-
099	R.M. of Lawrence	2	54,523
100	R.M. of Lorne	6	19,106
101	R.M. of Louise	1	22,000
102	Village of Lowe Farm	2	180,175
103	Village of Letellier	3	110,472
104	R.M. of MacDonald	31	285,683
105	Village of MacGregor	1	-
106	Village of Manitou	1	4,500
107	R.M. of McCreary	3	69,000
108	Village of McCreary	4	9,080
111	Town of Melita	4	82,207
112	R.M. of Miniota	6	-
113	R.M. of Minitonas	10	89,821
114	Village of Minitonas	1	767
115	Town of Minnedosa	1	19,025
117	R.M. of Montcalm	3	48,400
118	Town of Morden	9	21,730
119	R.M. of Morris	21	154,381
120	Town of Morris	6	3,300
121	R.M. of Morton	1	-
122	R.M. of Mossey River	4	16,798
123	U.V.D. of Newdale	1	24,118
125	Town of Neepawa	9	6,065
126	Village of Niverville	6	54,209
127	R.M. of North Cypress	17	79,875
129	R.M. of North Norfolk	6	56,096
130	Village of Notre Dame de Lourdes	1	400
133	Town of Oak Lake	2	24,000
134	R.M. of Oakland	8	88,902
135	R.M. of Ochre River	5	34,220
136	R.M. of Odanah	3	2,626
137	Village of Onanole	2	700
140	R.M. of Pembina	11	59,100
142	R.M. of Pipestone	10	10,578
143	Village of Plum Coulee	3	20,000
144	R.M. of Portage la Prairie	21	334,070
145	City of Portage la Prairie	49	1,150,881
150	R.M. of Rhineland	22	66,938
151	R.M. of Ritchot	14	150,394
152	Town of Rivers	4	35,200
153	R.M. of Riverside	3	84,000
154	Village of Riverton	2	15,750
155	R.M. of Roblin	7	7,460
156	Town of Roblin	5	40,962

Table No. 15 (continued)

NUMBER OF FIRES AND AMOUNT OF FIRE LOSS BY COMMUNITY OR AREA, 1982

Municipal Code	Name	No. of Fires	Amount of Loss
157	R.M. of Rockwood	36	$ 183,993
158	R.M. of Roland	2	41,400
159	R.M. of Rosedale	4	6,900
160	R.M. of Rossburn	4	11,077
161	Village of Rossburn	3	10,344
162	R.M. of Rosser	11	190,851
163	R.M. of Russell	4	12,545
165	Village of Richer	1	250
166	Village of Rosenort	1	127,561
167	R.M. of St. Andrews	55	232,380
168	R.M. of Ste. Anne	14	143,762
169	Village of Ste. Anne	5	8,226
170	Village of Swan Lake	2	30,160
171	Village of St. Claude	1	5,000
172	R.M. of St. Clements	20	227,263
173	R.M. of St. Francois Xavier	8	142,887
174	Village of St. Malo	2	-
175	R.M. of St. Laurent	5	63,410
176	Village of St. Lazare	1	916
177	Village of St. Pierre	1	-
178	R.M. of Ste. Rose	8	44,450
179	Village of Ste. Rose du Lac	6	1,750
181	U.V.D. of Sandy Lake	1	4,000
182	R.M. of Saskatchewan	2	49,000
183	Town of Selkirk	67	53,478
184	R.M. of Shellmouth	10	14,500
185	R.M. of Shell River	6	11,000
186	R.M. of Shoal Lake	3	1,800
187	Village of Shoal Lake	2	4,000
188	R.M. of Sifton	1	700
189	R.M. of Siglunes	26	164,699
190	R.M. of Silver Creek	2	700
191	Village of Somerset	2	1,799
192	Town of Souris	5	14,432
193	R.M. of South Cypress	4	-
194	R.M. of South Norfolk	3	51,500
195	R.M. of Springfield	104	453,010
196	R.M. of Stanley	19	64,354
197	Town of Steinbach	15	211,565
198	Town of Stonewall	15	63,257
199	R.M. of Strathclair	7	19,900
200	R.M. of Strathcona	5	314,507
201	R.M. of Swan River	23	141,174
202	Town of Swan River	19	125,700
203	Village of Stony Mountain	4	4,200
205	R.M. of Tache	21	642,158
206	Village of Teulon	6	204
207	Town of The Pas	34	702,065
208	R.M. of Thompson	5	32,904
209	City of Thompson	75	643,901
212	R.M. of Turtle Mountain	11	210,020
216	R.M. of Victoria	2	33,720
217	R.M. of Victoria Beach	3	527
218	Town of Virden	22	108,275
221	R.M. of Wallace	17	163,700
224	R.M. of Westbourne	8	165,600

Table No. 15 (continued)

NUMBER OF FIRES AND AMOUNT OF FIRE LOSS BY COMMUNITY OR AREA, 1982

Municipal Code	Name	No. of Fires	Amount of Loss
226	R.M. of West St. Paul	8	$ 53,600
227	R.M. of Whitehead	10	11,664
228	R.M. of Whitemouth	16	65,830
229	R.M. of Whitewater	7	554
230	R.M. of Winchester	4	228,167
231	Town of Winkler	10	50,523
232	City of Winnipeg	3,690	11,742,917
233	Town of Winnipeg Beach	4	28,139
234	Village of Winnipegosis	8	428,570
235	R.M. of Woodlands	23	245,565
236	R.M. of Woodworth	2	40,000
238	L.G.D. of Alexander	19	564,313
240	L.G.D. of Alonsa	13	241,950
242	L.G.D. of Armstrong	12	147,215
244	L.G.D. of Churchill	12	32,550
246	L.G.D. of Consol	2	1,645
248	L.G.D. of Fisher	11	46,700
250	L.G.D. of Gillam	5	90,500
252	L.G.D. of Grahamdale	8	56,690
254	L.G.D. of Grand Rapids	2	100
255	Bissett	1	-
256	Town of Leaf Rapids	10	62,200
258	L.G.D. of Lynn Lake	5	65,500
259	Stephenson Island	1	50,000
260	L.G.D. of Mountain	10	690,650
262	L.G.D. of Mystery Lake	4	115,805
264	L.G.D. of Park	4	33,846
266	L.G.D. of Pinawa	9	35,724
268	L.G.D. of Piney	8	71,661
270	L.G.D. of Reynolds	7	49,561
271	Cross Lake	3	-
272	Town of Snow Lake	6	1,700
273	Dakota Objibway Tribal Council	12	67,100
274	L.G.D. of Stuartburn	5	32,300
275	Berens River	3	36,700
277	Waterhen	1	-
278	Cranberry Portage	4	140,730
279	Thicket Portage	2	-
280	Pointe du Bois	2	14,500
282	Crane River	2	800
285	Mallard	1	300
286	Matheson Island	1	17,620
291	Duck Bay	3	136,864
292	Barrows/Powell/Westgate/National Mills	10	234,055
293	Cormorant	2	-
294	Camperville	4	13,000
296	Moose Lake	3	107,000
297	Norway House	1	-
298	South Indian Lake	1	15,000
299	Wabowden	5	30,500
300	Miscellaneous	98	1,450,757
303	Granville Lake	1	500,000
304	Harwill	2	1,150
	Total	**5,977**	**$36,209,760**

Table No. 16

1982 FIRES CAUSING THREE OR MORE FATALITIES

Date	Location	Occupancy	Cause	Fatality Breakdown Men	Women	Children	Total
82 03 05	Flin Flon	Retail with Residence	Defective oil space heater	-	3	-	3
82 03 08	Brandon	Apartment Block	Incendiary	3	1	-	4

Table No. 17

1982 FIRE LOSSES EXCEEDING $250,000

Date	Location	Occupancy	Reported Cause	Amount of Loss
82 01 01	Garden Hill Indian Reserve	Residential	Accidental	$ 585,546*
82 01 08	R.M. of Cornwallis	Agricultural Storage	Undetermined	424,700
82 01 09	Winnipegosis	Hotel	Undetermined	424,000
82 01 20	Winnipeg	Rail Transport Vehicle	Undetermined	300,000*
82 02 05	Birch River	Hotel	Undetermined	620,000*
82 02 11	Winnipeg	Industrial Storage	Undetermined — accidental	270,000*
82 02 16	Arborg	Mercantile	Accidental	350,000*
82 02 18	L.G.D. of Alexander	Electrical Generating Plant	Accidental	480.000*
82 03 08	Brandon	Residential	Incendiary	477,769*
82 03 25	The Pas	Industrial Manufacturing	Accidental	451,786
82 04 13	Brandon	Agricultural Storage	Undetermined — accidental	1,144,823
82 04 21	R.M. of Tache	Agricultural Storage	Accidental	260,000
82 05 03	R.M. of Strathcona	Agricultural Storage	Undetermined — accidental	314,000*
82 09 05	Granville Lake	Residential	Incendiary	500,000*
82 09 09	Portage la Prairie	Agricultural Storage	Undetermined — S.U.I.	935,098
82 09 17	Brandon	Mercantile	Incendiary	390,000*
82 09 20	Thompson	Residential	Accidental	475,000*
82 12 01	Dauphin	Mercantile	Accidental	440,000*
82 12 13	Winnipeg	Rail Transport Vehicles	S.U.I.	475,000*
82 12 17	Winnipeg	Businesses	Accidental	382,225*

*Estimated loss
S.U.I. — Still under investigation

Section II

Investigation Section

Table No. 18

INVESTIGATIONS CONDUCTED UNDER THE FIRES PREVENTION ACT, 1982

Area	Number of Investigations Conducted
Metro Winnipeg	312
Other Urban Areas	45
Rural Areas	332
Total	**689**

Table No. 19

FINDINGS OF INVESTIGATIONS CONDUCTED UNDER THE FIRES PREVENTION ACT, 1982

Cause of Fire	Number
Accidental	352
Incendiary	101
Vandalism	45
Undetermined — Accidental	168
— Suspicious	20
Still Under Investigation	3
Total	**689**

Table No. 20

DISPOSITION OF INVESTIGATIONS RELATED TO INCENDIARY FIRES, 1982

Disposition	Number
Insufficient Evidence for Charges to be Laid at End of 1982	25
Charges — Adults	60
— Juveniles	14
Convictions — Adults	15
— Juveniles	6
Charges Stayed or Withdrawn	17
Juveniles Warned	47
Acquittals	-
Charges Dismissed	-
Absolute Discharge	1
Conditional Discharge	2
Cleared Otherwise	-
Under Investigation	2
Suicide by Arson	1
Attempted Suicide by Arson	
Murder by Arson	1
Detained for Psychiatric Examination	-
Death by Incendiarism	-
Convictions on Other Offenses Related to Fire Incidents	14
No Charges Laid Due to Mental Illness	-
Warrants Issued	2
Court Cases Pending at End of 1982	41*

*Seven court cases pending prior to 1982.

Section III

Fire Prevention Section

Table No. 21

INSPECTIONS BY CLASS OF PROPERTY UNDER THE FIRES PREVENTION ACT, 1982

Class of Property	Inspections	Re-inspections	Requirements for the Removal or Correction of Hazards	Hazards Removed at time of Inspection
Schools	57	9	293	58
Churches	1	-	2	-
Public Assembly	7	1	29	-
Care for the Aged	126	16	836	40
Hospitals	34	10	172	26
Staff Residences	7	-	55	6
Halls, Arenas and Rinks	18	-	156	7
Hotels and Motels	8	1	76	9
Apartments	41	35	202	100
Commercial Buildings	9	1	108	16
Dwellings	7	-	30	-
Garages	1	-	4	-
Day Care	128	2	326	19
Unclassified	26	3	163	-
Total	**470**	**78**	**2,452**	**281**

Table No. 22

REQUIREMENTS ISSUED FOR CORRECTION OR REMOVAL OF HAZARDS BY TYPE, 1982

Type of Hazard	Number
Heating Equipment	154
Electrical	84
Flammable Liquids	157
Gas Hazards	12
Spontaneous Heating	9
Housekeeping	199
Storage	285
Exits and Alternate Means of Egress	292
Exit Lights	220
Fire Alarm Systems	229
Interior Finish	64
Fire Spread Barriers	80
Fire Doors and Windows	84
Fire Extinguishers	407
Miscellaneous	176

Table No. 23

INSPECTIONS CONDUCTED UNDER THE FIRES PREVENTION ACT BY LOCAL FIRE PREVENTION OFFICERS[1], 1982

Community	Inspections	Re-inspections	Requirements for the Removal or Correction of Hazards	Hazards Removed at Time of Inspection
Angusville	30	-	4	-
Beausejour	33	-	24	-
Binscarth	18	-	15	-
Birtle	10	-	22	3
Crystal City	18	-	27	-
Dallas — Red Rose[2]	6	-	22	-
Dominion City	9	-	8	-
Flin Flon	43	-	98	5
Harwill[2]	9	-	45	-
Lac du Bonnet	22	-	24	-
Lorette	10	-	15	-
Matheson Island[2]	16	-	1	-
Melita	192	13	156	65
Pierson	30	-	23	-
R.M. of Pipestone	127	-	246	3
St. Adolphe	75	-	83	-
St. Malo	1	-	4	-
Snow Lake	33	-	28	-
Thompson	546	201	1,609	5
Wallace & District	427	24	741	61
Whitemouth	16	-	27	-
Total	**1,671**	**238**	**3,222**	**142**

[1]The Municipal Fire Prevention Program was made available to all fire departments in the fall of 1982. The purpose of this program is to increase public awareness of potential fire hazards through annual inspections.
[2]Remote northern community.

Table No. 24

FIRE PREVENTION EDUCATIONAL ACTIVITIES, 1982

Type of Activity	Number Held
MEETINGS:	
Fire Departments	9
School or School Division Officials	6
Administrators of Institutions	29
Administrators and/or Maintenance Personnel	7
Mercantile	2
Government (all levels)	17
Municipal Fire Prevention Officers	-
Building Inspectors	4
Unclassified	35
CONSULTATIONS:	
Fire Chiefs	98
School or School Division Officials	33
Administrators of Institutions	45
Commercial and/or Industrial	21
Government (all levels)	71
Day Care Administrators/Co-ordinators	22
Municipal Fire Prevention Officers	12
Building Inspectors	19
Mutual Aid Fire Prevention Officers	4
Unclassified	34
MISCELLANEOUS:	
Film Showings and/or Slides	-
Fire Drills and Fire Evacuations	1
Lecture Presentations	4
Unclassified	-

Table No. 25

TECHNICAL SERVICES ACTIVITIES[1], 1982

Class of Property[2]	Type of Activity		
	Plans Examined	Reports Issued	On Site Inspections
Assembly	12	10	7
Institutional	114	31	25
Residential	4	1	1
Mercantile and Personal Services	2	1	1
Industrial	60	51	9
Miscellaneous	10	6	3
Total	**202**	**100**	**46**

[1]This unit has conducted 187 meetings and 2,344 consultations.
[2]The classes are defined in The Manitoba Building Code.

Section IV

Fire Training Section

Table No. 26
EDUCATIONAL AND TRAINING ACTIVITIES UNDER THE FIRE TRAINING SECTION, 1982

Type of Activity	Number Held	Attendance
MEETINGS:		
Public	-	-
Fire Departments	78	278
Governmental	58	386
Institutional Board Meetings	14	102
Mutual Aid	67	1,002
Uniform Training Program	4	66
Fire Service Instructors	56	80
Special Projects	91	1,094
CONSULTATIONS:		
Fire Chiefs	815	893
School or School Division Officials	26	144
Administrators of Institutions	62	77
Civic, Provincial and Federal Officials	239	276
Commercial and/or Institutional	149	159
Mutual Aid Officers	9	10
Municipal Fire Prevention Officers	88	105
Fire Service Instructors	173	173
Fire Prevention Officers	19	20
TRAINING:		
Fire Departments	79	1,089
Hospital Staffs	26	570
Nursing Home Staffs	29	549
Other Institutional Staffs	28	625
Commercial and/or Industrial	12	157
Fire Drills and Evacuations	-	-
Mutual Aid	8	220
Uniform Training Program	2	26
Special Projects	44	783
MISCELLANEOUS:		
Fire Schools[1] — Local	-	-
— Regional	-	-
Fire Protection Surveys	21	n/a
Fire Apparatus Specifications	12	n/a
Pumper Tests	8	n/a
Film and/or Slides	1	150

[1]Due to the expansion of the 1982 Manitoba Fire College activities; local and regional schools were carried out and incorporated in Table 29.

Table No. 27

INSPECTIONS CONDUCTED BY STAFF UNDER THE NORTHLANDS AGREEMENT[1], 1982

Class of Property	Inspections	Re-inspections	Requirements for the Removal or Correction of Hazards	Hazards Removed at Time of Inspection
Dwellings, Outbuildings and Commercial Structures	600	38	1,345	1

[1]Part of a special fire protection program conducted in northern communities in co-operation with the Provincial Department of Northern Affairs. The program is established under a Federal-Provincial agreement, and is not funded under the provisions of The Fires Prevention Act.

Table No. 28
EDUCATIONAL AND TRAINING ACTIVITIES UNDER THE NORTHLANDS AGREEMENT, 1982

Type of Activity	Number Held	Attendance
MEETINGS:		
Community Committees or Councils	59	280
Fire Departments	33	245
Fire Service Instructors	1	2
Institutional Board Meetings	4	14
Mutual Aid	8	57
Uniform Training Program	6	42
Special Projects	35	117
CONSULTATIONS:		
Fire Chiefs	168	351
Fire Prevention Officers	22	73
Fire Service Instructors	13	22
Civic, Provincial and Federal Officials	126	282
Schools and/or School Divisions	12	27
Administrators of Institutions	18	41
Miscellaneous	10	19
TRAINING:		
Fire Departments	89	673
Administrators of Institutions	2	15
Commercial and/or Industrial	-	-
Mutual Aid	2	26
Uniform Training Program	37	201
Special Projects	28	184
MISCELLANEOUS:		
Fire Protection Surveys	3	n/a
Pumper Tests	7	n/a
Fire Apparatus Specifications	5	n/a
Films and/or Slides	33	1,356
Fire Drills and/or Evacuations	6	947

Table No. 29

FIRE COLLEGE ACTIVITIES[1],

1982

Courses	Number Held	Attendance
Anhydrous Ammonia Seminar[2]	3	57
Basic Fire Fighting Practices (Regional Schools)[2]	46	673
Basic Search and Rescue[2]	9	138
Breathing Apparatus	1	11
Care Institutional Fire Protection and Emergency Planning School	2	19
Care Institutional Fire Safety and Instructors Course[2]	1	9
Command Officers Seminar	1	219
Dangerous Goods Command and Control Seminars	44	934
Driver Training Course	6	61
Emergency Vehicle Operators Seminar	17	178
Fire Cause and Arson Detection Seminars	5	95
Fire Prevention and Inspection School		
Introduction	4	58
Level I	6	68
Level II	3	33
Level III	1	6
Fire Service Instructors School[2]		
Introduction	2	14
Level I	13	134
Level II	-	-
Level III	1	6
Hotel and Motel Fire Safety	32	572
Institutional Fire Safety[2]	140	3,057
Manitoba Police Officers Fire and Arson Seminar	1	33
Pump Operators[2]	5	59
Vehicle Extrication Seminar	19	373
Total	**362**	**6,807**

[1]The courses held at the Manitoba Fire College are aimed at instructing local fire department officers, institutional government staffs of potential fire hazards and understanding the application of the Manitoba Fire Code so that a reasonable degree of safety to the occupants in existing buildings is provided as well as providing fire safety plans.
The improvement of techniques and a clearer understanding of the detection and prevention of arson where the objectives for the police and fire officials school.
The remaining courses held were to improve the skills and techniques of fire officers and fire fighters in the Province of Manitoba.
[2]These courses were also attended by members of newly organized fire departments from remote northern communities.

Section V

Lending Library

BOOKS AVAILABLE FROM THE FIRE COMMISSIONER'S LENDING LIBRARY

The books listed here are available without charge for a three week time limit, from Room 510 Norquay Building, 401 York Avenue, Winnipeg, Manitoba, Telephone 944-3322.

Aircraft Fire Protection and Rescue Procedures — 1st Edition
America Burning
An Introduction to the Fire Service — Volume I
An Introduction to the Fire Service — Volume II
An Unlikely Fire Master
A Personnel Manual for Volunteer Fire Companies
A Study of The Baptist Towers Housing For The Elderly Fire
Attacking and Extinguishing Interior Fires — Volume I
Attacking and Extinguishing Interior Fires — Volume II

Breathing Apparatus for the Fire Service

Campus Fire Safety

Disasters

Effectiveness of Various Bridging Methods
Elementary Science Applied to the Fire Service

Fire and You
Fire Apparatus Maintenance
Fire Attack I
Fire Attack II
Fire Behaviour and Sprinklers
Fire Department Fog Nozzles
Fire Department Terminology — 4th Edition
Fireground Tactics
Fire In America!
Fire In The United States
Fire Officer's Guide to Dangerous Chemicals — 2nd Edition
Fire Officer's Guide to Extinguishing Systems
Fire Prevention and Inspection Practices — 4th Edition
Fire Prevention for the Farm
Fire Safety in the Home
Fire School Text Book (Winnipeg Fire Department) Volume I
Fire School Text Book (Winnipeg Fire Department) Volume II
Fire School Text Book (Winnipeg Fire Department) Volume III
Fire School Text Book (Winnipeg Fire Department) Volume IV
Fire Service First Aid Practices — 4th Edition
Fire Service Hydraulics — 2nd Edition
Fire Service Instructor Training — 2nd Edition
Fire Service Ground Ladder Practices — 7th Edition
Fire Service Management
Fire Service Practices for the Volunteer Fire Department — 4th Edition
Fire Service Training — Black Book
Fire Service Training — Red Book (Workbook)
Fire Service Rescue and Protection Breathing Practices — 4th Edition
Fire Terminology
Fighting Rural Fires — 1st Edition
Forcible Entry, Rope and Portable Extinguishing Practices — 3rd Edition
Forcible Entry, Rope and Portable Extinguishing Practices — 4th Edition

Handling Hose and Ladders

Industrial Fire Brigades
Intercom — II
Intercom — IV
Intercom — V
Intercom — VI
Intercom — VII

Leadership in the Fire Service
Life Safety Code No. 101

Manning for Fire Attack
Manual for Home Fire Safety
Modern Guidelines for Fire Control
Municipal Fire Administration — 5th Edition
Municipal Fire Administration — 7th Edition
Municipal Support of Volunteer Fire Companies
MCA Chem-Gard Manual

Operating Fire Department Aerial Ladders
Operating the Fire Department Pumper — 3rd Edition
Operation Skyline (Pre-Fire Planning for High-Rise Office and Apartment Buildings)

Promotional Study Course for Firemen

Questions and Answers (A Study to Fire Service Hydraulics)

Recommended Standards for Fire Fighters
Reconstruction of a Tragedy

Salvage and Overhaul Practices — 5th Edition
Science Applied to the Fire Service — 3rd Edition
Suburban Fire Fighting
Successful Public Relations — The What Why Who How Where When

The Complete Fire Station
The Fire Chief's Handbook — 2nd Edition
The Fire Chief's Handbook — 3rd Edition
The Fire Department Officer — 2nd Edition
The Mechanism of Extinguishment of Fire by Finely Divided Water
Training Firemen to Make Dwelling Inspections

Water Supplies for Fire Protection — 2nd Edition

FIRE SERVICE

EDUCATIONAL FILMS

The films listed are obtainable from the Film Library of the Department of Health and Community Services, 880 Portage Avenue, Winnipeg, (772-4554):

Another Man's Family — 25 min. colour
Are You Safe At Home? — 18 min. B & W

Before They Happen — 14 min. B & W

Donald's Fire Survival Plan — 11 min. colour
Don't Get Burned

Fire In My Kitchen — 12 min. colour
Fire In Town — 26 min. colour
Fire — Not In My House — 11 min. colour
Fire — Two Way Out — 11 min. colour
Flammable Liquid Fire Safety — 18 min.

Go To Blazes — 20 min. B & W

Have A Wonderful Evening — 16 min. B & W
He Comes Without Calling
Hot Stuff — 9 min. colour

I'm No Fool With Fire — 10 min. colour
In A Fire Seconds Count — 18 min. colour
It's Your Life — colour

Learn Not To Burn
Liquids Can Burn — 13 min. colour

Operation Edith — 11 min. colour

Playing With Fire — 16 min. colour
Price Of Fire, The — 23 min. B & W

Read The Label & Live — 9 min. colour
Rehearsal For Survival

Science Of Fire, The — 20 min. colour
See A Pin — 15 min. colour
Setting Fire For Science — 20 min. colour

The Angry Flame
The Challenge
They Called It Fire Proof — 29 min. colour
They Didn't Have To Die — 10 min. B & W
Tiger In The House — 14 min. colour

Will Your Job Burn — 18 min.
Where There's Smoke — 10 min. B & W
Where's Tommy — 11 min. colour

You And Yours — 20 min. colour

Section VI

Manitoba Fire Chiefs

OFFICE OF THE FIRE COMMISSIONER
LIST OF THE FIRE CHIEFS AND FIRE DEPARTMENTS
1982

Alexander	Wayne Gilling
Alonsa	Stan Fashoway
Altona	Ed Klassen
Amaranth	Thomas Thompson
Anama Bay	Einar K. Einarsson
Angusville	Mike Klym
Arborg	Wm. R. Aitken
Ashern	Wm. Koch
Austin	Don Currie
Baldur	Marcel Fransoo
Barrows	Clifford O'Neill
Beausejour	Ron Nikodem
Belmont	Edward Verhelst
Benito	John Prokopowich
Berens River	Tache McKay
Big Black River	Raymond Valiquette
Binscarth	Walter K. Hutton
Birch River	Floyd Corbett
Birtle	Gerald Birch
Bissett	Louis Rushton
Boissevain	Norman Smith
Bowsman	Ken Fahrenschon
Brandon	E. Polnick
Brochet	Adolf Cook
Camperville	George Flamond
Carberry	R. Alvin Walker
Carman	Brian Milne
Cartwright	Wm. G. Waldie
Churchill	Ken Bertram
Cormorant	Joe Sydor
Cranberry Portage	Tihamer Nagy
Crane River	James Moar
Cross Lake	Glen Smith
Crystal City	Wm. McKitrick
Cypress River	Brian Laing
Dallas/Red Rose	Mark Mankewick
Darlingford	Bob Davidson
Dauphin	G. Seeley
Deloraine	Wm. Kilmury
Dominion City	Barry Gushuliak
Duck Bay	Franklin Thompson
East St. Paul	Ernie Ottenbreit
East Selkirk	Clive Rennie
Easterville	Garfield McKay
Elie	Roger Gillis
Elm Creek	Kermit Olson
Emerson	Lawrence Pow
Erickson	Dennis Skog
Eriksdale	Ray Silbernagel
Ethelbert	Harry Granburg
Fisher Branch	Dave Caldwell
Flin Flon	Don W. Still
Fork River	Ben Bornn
Foxwarren	Don Hodgson
Gilbert Plains	Gerry Shmon
Gillam	Tom N. Playford
Gimli	Bert Bouillet
Gladstone	John Kerr
Glenboro	Bill Jamieson
Glenella	Clifford Morris
God's Lake Narrows	Leslie Whiteway
Grand Marais	Art Carriere
Grand Rapids	Siegfried Brey
Grandview	John Yarush
Gretna	John Teichroeb
Grunthal	Wm. Giesbrecht
Hamiota	Douglas Roberts
Hartney	R.A. McKenzie
Harwill	Dave Hobden
Haywood	J. Dheilly
Herb Lake	Jim Corman
Holland	Ron Landreville
Homebrook	Ruth Zahorodney
Ilford	Edward Shoup
Inglis	Gerald Gorda
Island Lake	Dave Playfair
Kelwood	Dave Melynchuk
Kenton	Peter Siemens
Killarney	C.E. Hartwell
Kleefeld	Herman Friesen
La Broquerie	Gilbert Tetrault
La Riviere	Karl Wiklund
Lac du Bonnet	Bob McKay
Leaf Rapids	Edward Kozy
Letellier	Joseph Lavallee
Lorette	R. Desorcy
Lowe Farm	Cornelius Fehr
Lundar	Ernie Oliver
Lynn Lake	A.J. Drinnan
MacGregor	Ronald Borton
Mafeking	Archie Paul
Manigotogan	Harry Carter
Manitou	R.E. Christoff
McAuley	Murray Barkley
McCreary	Wm. Roncin
Meadow Portage	Ludger Farand
Melita	Mel Davis
Miami	L. Mansell
Miniota	S.W. Dales
Minitonas	Douglas E. Wagner
Minnedosa	M. Mummery
Moose Lake	Michael Lucien
Moosehorn	Michael Kutzy
Morden	Jack A. Duncan
Morris	Bill Harder
National Mills	Leon Guiboche
Neepawa	Tim Prawdzik
Nelson House	George Howard
Newdale	Garry Waddell
Ninette	Bob Mason
Niverville	Rene LaRiviere

OFFICE OF THE FIRE COMMISSIONER
LIST OF THE FIRE CHIEFS AND
FIRE DEPARTMENTS
1982 (Continued)

Norway House	Paul Low
Notre Dame de Lourdes	Gilbert Bazin
Oak Bank	John Murrell
Oak Lake	Robert Smith
Oak River	Kenneth Kingdon
Oakburn	J.R. Edmundson
Ochre River	W. Lloyd Freeman
Onanole	Russ Strutt
Pelican Rapids	Gordon Munroe
Pierson	Merv Nicholls
Pikwitonei	Harvey Brightnose
Pilot Mound	K.L. Heppner
Pinawa	N.P. Cliche
Pine Falls	Peter Hutchison
Piney	Dale Edbom
Plumas	Alex Porosky
Plum Coulee	Ben Wall
Pointe du Bois	Stanley Werestuik
Portage la Prairie	Albert MacDonald
Rapid City	Wm. Bertrand
Rathwell	Rudy Rudnicki
Red Deer Lake	Ms. Thelma Hather
Reston	Ross Benzie
Richer	Louis Verrier
Rivers	Ken Dawson
Riverton	Raymond Johnson
Roblin	C. Brade
Roland	James Moffatt
Rorketon	Leo L. Hrushowy
Rosedale	Matt Skibinsky
Rosenort	Frank Plett
Rossburn	Larry Huston
Russell	Henry Smith
St. Adolphe	Hubert Brodeur
St. Andrews	Edwin Carter
St. Claude	Alfred Pineau
St. Francois Xavier	John Zeemel
St. Jean Baptiste	Norbert Sabourin
St. Laurent	John Dyck
St. Lazare	Andrew Perreault
St. Malo	Denis Maynard
St. Pierre Jolys	R. Hebert
Ste. Anne	Maurice Chaput
Ste. Rose du Lac	Wm. Ryder
Sandy Lake	Les Lewandoski
Sanford	Alvin R. Murner
Selkirk	Ted Wozny
Seymourville	Ted Seymour
Sherridon	Nick Benyk
Shoal Lake	J.R. Edmundson
Sifton	Martin Gancher
Snow Lake	Brian Hicks
Somerset	Paul G. Thevenot
Souris	James Cameron
South Indian Lake	Steve Doucharme
Sperling	Wilfred Sessions
Sprague	Stan Meek
Steinbach	Ert Peters
Stevenson Island	Dave Playfair
Stonewall	Wayne Tyerman
Stony Mountain	Ron Lucas
Strathclair	Howard C. Pahl
Swan Lake	Harry VanCauwenberghe
Swan River	Walter Hickman
Teulon	Jack Palen
The Pas	Neil Puckett
Thicket Portage	Alvin Brightnose
Thompson	L. Carkener
Treherne	John Jenkinson
Victoria Beach	Robert L. Jonsson
Vita	Robert C. Cesmystruk
Wabowden	Vern Smith
Wallace	Bob Chesney
Warren	Allan Jones
Wasagaming	Jacques Saquet
Waskada	W.H. Watson
Waterhen	Allan McCreery
Wawanesa	Mel Roney
West St. Paul	James G. Turney
Whitemouth	Paul Thomson
Whitewater	Howard Turnbull
Winkler	P. Enns
Winnipeg	Lloyd Moist
Winnipeg Beach	Lyle Olson
Winnipegosis	C. Bergen